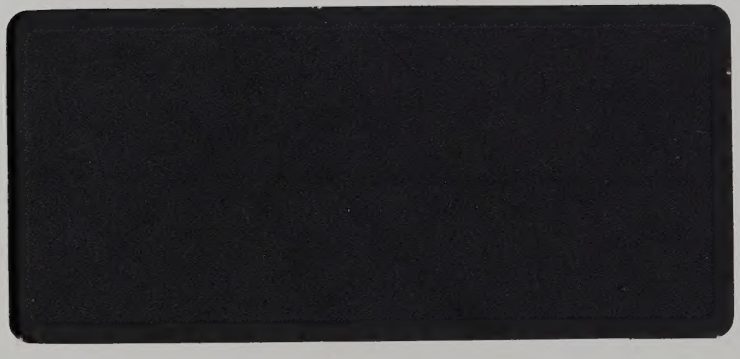
ARC

Parts Catalog

ARC TYPE R-30 & R-30A RECEIVERS

Aircraft Radio Corporation *Boonton, New Jersey*



Parts Catalog

for

ARC TYPE R-30
& R-30A
RECEIVERS

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SECTION I

GENERAL INFORMATION

1-1. INTRODUCTION.

This book contains parts information for the ARC Type R-30 and the ARC Type R-30A Receivers (Figure 1) manufactured by Aircraft Radio Corporation, Boonton, New Jersey.

1-2. PARTS LIST.

The Parts List, Section II, consists of a breakdown of the equipment into assemblies, subassemblies, and detail parts. Items which are made from bulk stock, such as cut lengths of wire, are not included.

The description column lists each assembly, or subassembly, and its detail parts properly indented to show their relationship to the assembly or subassembly. Attaching parts are listed in the same indented column, following the parts they attach. The symbol "- - - * - - -" indicates the completion of the attaching parts. A reference to a figure and index number in the description column refers to a separate illustration and listing in which the detail parts are shown, or to the illustration on which the part is shown as an assembled item. Parts which are limited in use to a specific model or serial number group are identified by noting the applicable model or serial numbers. Codes and part numbers of manufacturers (paragraph 1-5) other than ARC are also included in parentheses in the description column.

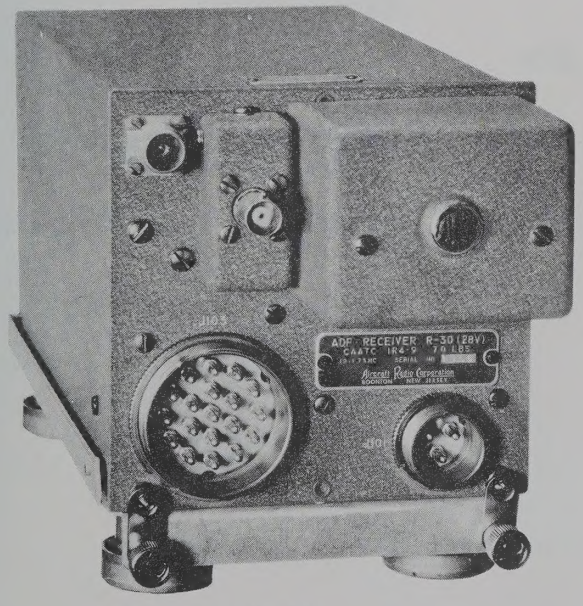
Except for attaching parts, the quantities listed in the units-per-assembly column are the quantities per assembly, per subassembly, etc. The quantities specified, therefore, are not necessarily the total for the equipment; total quantities are listed in the Numerical Index, Section III. The letters "AR" denote that the quantity used is "as required." "Ref" indicates an assembly which was removed previously and which is relisted for reference purposes.

1-3. NUMERICAL INDEX.

The part number column of the Numerical Index, Section III, lists all part numbers included in the Parts List, cross-referenced to the figure and index numbers, and is compiled in accordance with the following alphabetical-numerical system.

Part number arrangement starts at the left and continues from left to right, one column at a time, until part number position in the numerical index is determined. Beginning with the first column, the order of precedence to determine the part number position is as follows:

1. Letters A through Z
2. Numerals 0 through 9



R-30

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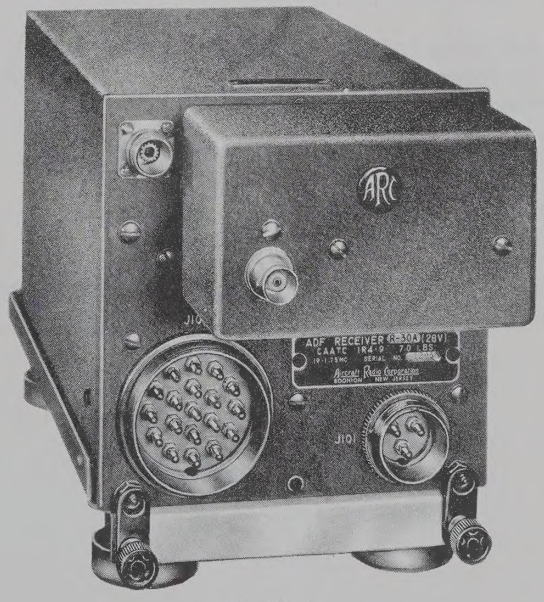

R-30A

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Figure 1. ARC Type R-30 and R-30A Receivers

Continuing with the second and succeeding columns, the order of precedence to determine the part number position is as follows:

1. Space (blank column)
2. Diagonal (slant) /
3. Point (period) .
4. Dash (—)
5. Parentheses ( )
6. Letters A through Z
7. Numerals 0 through 9

Alphabetical O's are considered as numerical zeros. Parts which have neither an ARC nor a manufacturer's part number are listed by item name and identifying characteristics.

The total quantity column lists the total quantity of assemblies or parts for the equipment. The letters "AR" indicate that the quantities used are indeterminate (as required) and no definite quantity can be shown.

1-4. REFERENCE DESIGNATION INDEX.

The Reference Designation Index, Section IV, lists the reference designations which have been assigned to the parts of the equipment cross-referenced to the figure and index numbers and the part number. The reference designation column lists the reference designations in alphabetical-numerical sequence. All reference designations used in illustrations and publications pertaining to the equipment are listed.

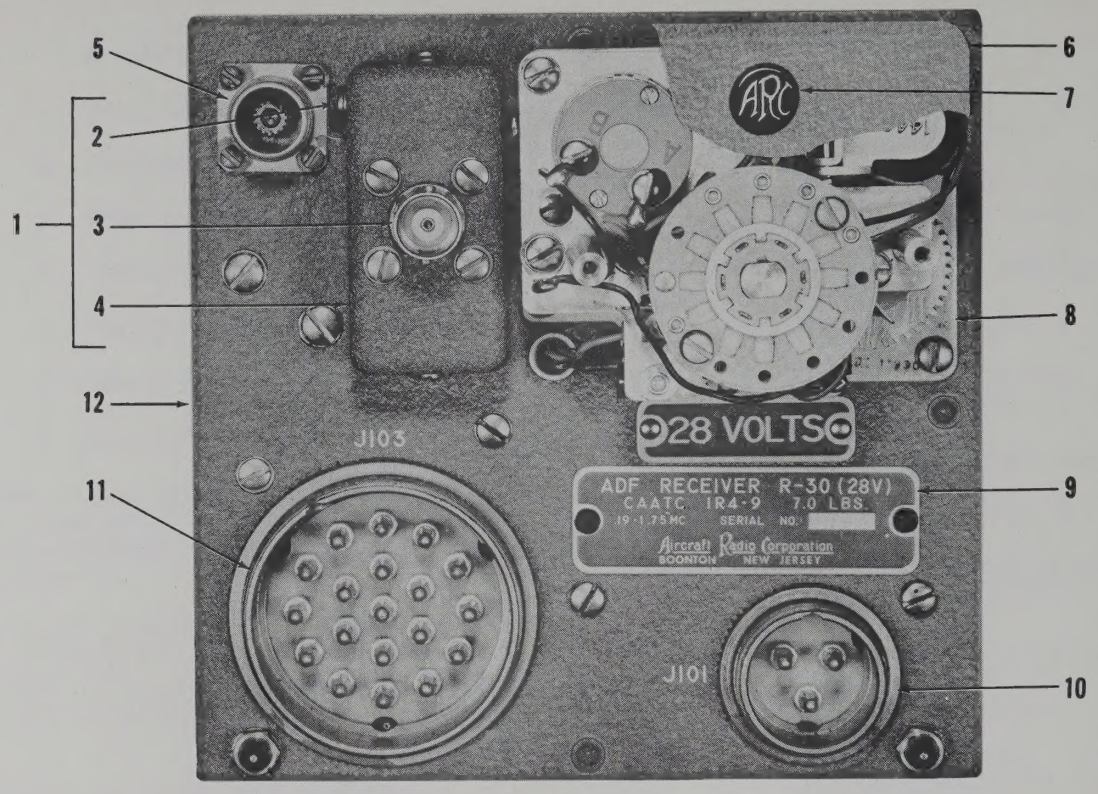
1-5. MANUFACTURER'S CODE.

The following is a list of manufacturers' codes, and the corresponding names and addresses, which are referenced in this Parts Catalog.

CODE	NAME AND ADDRESS
AB	ALLEN-BRADLEY CO. Milwaukee, Wisconsin
CLD	CORNELL DUBILIER ELEC. CORP. South Plainfield, New Jersey
CLIP	CLIFTON PRECISION PRODUCTS COMPANY Clifton Heights, Pennsylvania
CMPB	COLIN CAMPBELL CO. INC. Danbury, Connecticut
EMM	ELECTRO MOTIVE MFG. CO. Willimantic, Connecticut
EN	ELASTIC STOP NUT CORP. OF AMERICA Union, New Jersey
ERC	ERIE RESISTOR CORP. Erie, Pennsylvania
FML	FANSTEEL METALLURGICAL CORP. North Chicago, Illinois
IPC	INDUSTRIAL PRODUCTS CO. Danbury, Connecticut
JFE	JEFFERS ELECTRONICS DIV. SPEER CARBON CO. DuBois, Pennsylvania
MCS	MICRO SWITCH DIV. MINNEAPOLIS-HONEYWELL REGULATOR CO. Freeport, Illinois
OAK	OAK MANUFACTURING CO. Chicago, Illinois
PK	PARKER KALON CORP. New York, New York
SH	SHAKEPROOF DIV. OF ILLINOIS TOOL WORKS Chicago, Illinois
SPR	SPRAGUE ELECTRIC CO. North Adams, Massachusetts
UGA	UNITED STATES GASKET CO. Camden, New Jersey
WIQ	WINCHESTER ELECTRONICS CO. Glenbrook, Connecticut
WKI	WALDES KOH-I-NOR INC. Long Island City, New York

SECTION II

PARTS LIST



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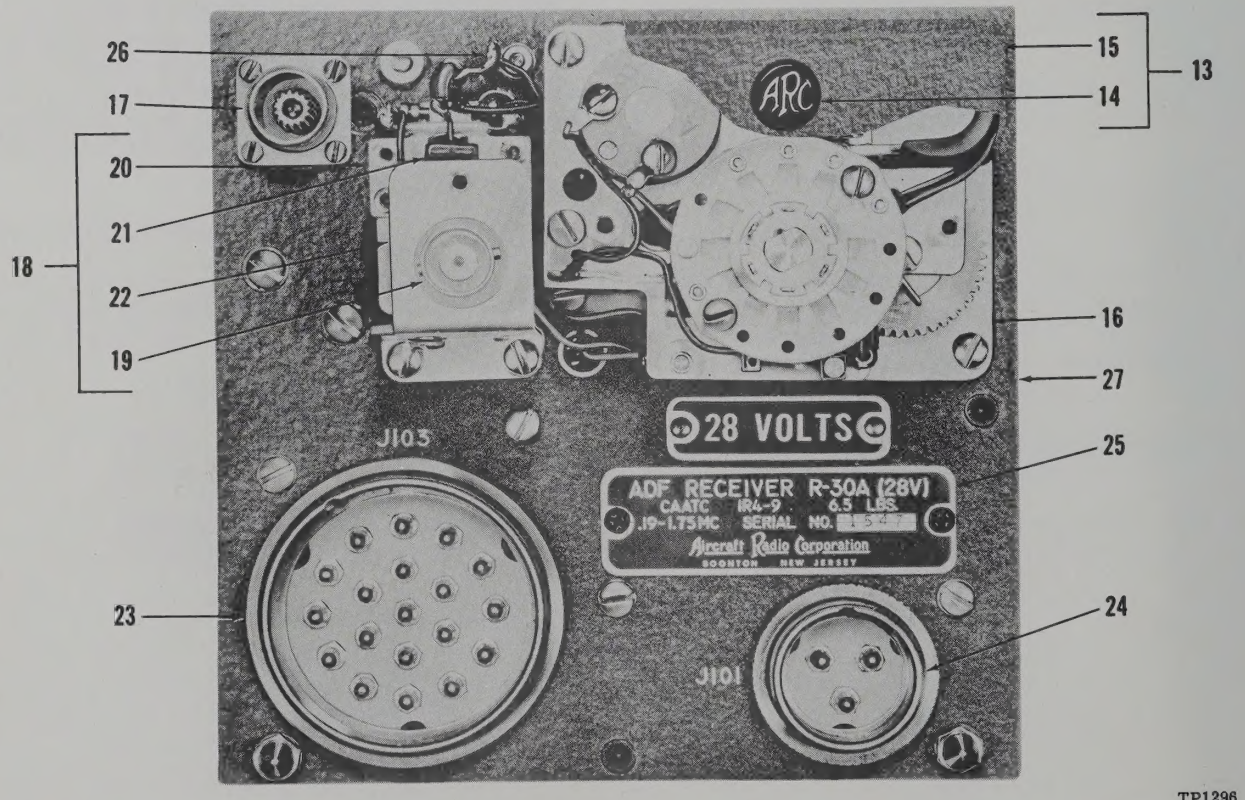

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R-30A

Figure 2. R-30 and R-30A Receivers, Front View

Figure & Index No.	ARC Part No.	1 2 3 4 5 6 Description	Units per Assy
2-	17960(14V)	RECEIVER, ARC Type R-30(14V)(front view)	1
2-	17960(28V)	RECEIVER, ARC Type R-30(28V)(front view)	1
2-	20480(14V)	RECEIVER, ARC Type R-30A(14V)(front view)	1
2-	20480(28V)	RECEIVER, ARC Type R-30A(28V)(front view)	1
-1	18070	. COVER (used on R-30)	1
		(ATTACHING PARTS)	
	513(7/32)	. SCREW, Assembled washer, bind hd, brs screw, sst lockwasher, ni pl, 3-48 thd by 7/32 in. lg (SH)(SEMS)(used on R-30)	2
		- - - * - - -	
-2	5914	. . TERMINAL, Lug (used on R-30)	1
		(ATTACHING PARTS)	
	503(3/16)	. . SCREW, Assembled washer, bind hd, brs screw, sst lockwasher, ni pl, 3-48 thd by 3/16 in. lg (SH)(SEMS)(used on R-30)	1
	4561	. . NUT, Hexagon, brs, ni pl, 3-48 thd by 1/16 in. thk (used on R-30).	1
	4103	. . WASHER, Lock, sst, 0.105 ID by 0.220 OD by 0.025 in. thk. (SH)(1703)(used on R-30)	1
		- - - * - - -	
-3	11338	. . CONNECTOR, Receptacle (UG-290A/U)(IPC)(IPC-8700)(used on R-30)	1
		(ATTACHING PARTS)	
	8264	. . SCREW, Machine, bind hd, brs, ni pl, 3/56 thd by 3/16 in. lg (used on R-30)	4
	4103	. . WASHER, Lock, sst, 0.105 ID by 0.220 OD by 0.025 in. thk. (SH)(1703)(used on R-30)	1
		- - - * - - -	
-4	18071	. . COVER (used on R-30).	1
-5	18163	. SLEEVE (used on R-30)	1
		(ATTACHING PARTS)	
	162(5/32)	. SCREW, Machine, fil hd, brs, ni pl, 2-56 thd by 5/32 in. lg (used on R-30)	4
		- - - * - - -	
-6	18069	. COVER (used on R-30)	1
		(ATTACHING PARTS)	
	513(3/16)	. SCREW, Assembled washer, bind hd, brs screw, sst lockwasher, blk oxidized, 3-48 thd by 3/16 in. lg (SH)(SEMS)(used on R-30)	2
		- - - * - - -	
-7	20909	. EMBLEM (used on R-30)	1
		(ATTACHING PARTS)	
	8040	. NUT, Hexagon, brs, ni pl, 4-40 thd by 1/16 in. thk (used on R -30) .	1
	7730	. WASHER, Spring tension (used on R-30)	1
		- - - * - - -	
-8	17930(14V)	. GEARING SUBASSEMBLY (14V)(used on R-30)(see Figure 4)	1
-8	17930(28V)	. GEARING SUBASSEMBLY (28V)(used on R-30)(see Figure 4)	1
		(ATTACHING PARTS)	
	503(1/4)	. SCREW, Assembled washer, bind hd, brs screw, sst lockwasher, ni pl, 3-48 thd by 1/4 in. lg (SH)(SEMS)(used on R-30)	3
		- - - * - - -	
-9	17974	. PLATE, Identification (14V)(used on R-30)	1
-9	17975	. PLATE, Identification (28V)(used on R-30)	1
		(ATTACHING PARTS)	
	8081	. SCREW, Tapping, thread-forming, rh, Phillips drive, stl, blk parkerized, No. 2 by 5/32 in. lg (PK)(Z)(used on R-30)	2
		- - - * - - -	
-10	12426	. CONNECTOR, Receptacle, electrical, 3 pin (used on R-30)	1
		(ATTACHING PARTS)	
	9327	. NUT, Knurled (supplied with 10, Figure 2)(used on R-30).	1
		- - - * - - -	
-11	12357	. CONNECTOR, Receptacle, electrical, 19 pin (used on R-30)	1
		(ATTACHING PARTS)	
	5310	. NUT, Knurled (supplied with 11, Figure 2)(used on R-30).	1
		- - - * - - -	

Figure & Index No.	ARC Part No.	1 2 3 4 5 6 Description	Units per Assy
2-12	18058	. FRONT PANEL (used on R-30)	1
		(ATTACHING PARTS)	
	18062	. STUD (used on R-30)	2
	8488	. WASHER, Lock, sst, 0.145 ID by 0.280 OD by 0.030 in. thk (SH) (1706)(used on R-30)	2
	503(5/16)	. SCREW, Assembled washer, bind hd, brs screw, sst lockwasher, ni pl, 3-48 thd by 5/16 in. lg (SH)(SEMS)(used on R-30)	4
		- - - * - - -	
-13	20910	. COVER ASSEMBLY (used on R-30A)	1
		(ATTACHING PARTS)	
	513(3/16)	. SCREW, Assembled washer, bind hd, brs screw, sst lockwasher, blk oxidized, 3-48 thd by 3/16 in. lg (SH)(SEMS)(used on R-30A)	3
		- - - * - - -	
-14	20909	. . EMBLEM (used on R-30A)	1
		(ATTACHING PARTS)	
	8040	. . NUT, Hexagon, brs, ni pl, 4-40 thd by 1/16 in. thk (used on R-30A)	1
	7730	. . WASHER, Spring tension (used on R-30A)	1
		- - - * - - -	
-15	20509	. . COVER (used on R-30A)	1
-16	17930(14V)	. GEARING SUBASSEMBLY (14V)(see Figure 4)(used on R-30A)	1
-16	17930(28V)	. GEARING SUBASSEMBLY (28V)(see Figure 4)(used on R-30A)	1
		(ATTACHING PARTS)	
	503(1/4)	. SCREW, Assembled washer, bind hd, brs screw, sst lockwasher, ni pl, 3-48 thd by 1/4 in. lg (SH)(SEMS)(used on R-30A)	3
		- - - * - - -	
-17	18163	. SLEEVE (used on R-30A)	1
		(ATTACHING PARTS)	
	162(5/32)	. SCREW, Machine, fil hd, brs, ni pl, 2-56 thd by 5/32 in. lg (used on R-30A)	4
		- - - * - - -	
-18	20631(14V)	. RELAY ASSEMBLY (14V)(used on R-30A)	1
-18	20631(28V)	. RELAY ASSEMBLY (28V)(used on R-30A)	1
		(ATTACHING PARTS)	
	503(1/4)	. SCREW, Assembled washer, bind hd, brs screw, sst lockwasher, ni pl, 3-48 thd by 1/4 in. lg (SH)(SEMS)(used on R-30A)	1
	503(5/32)	. SCREW, Assembled washer, bind hd, brs screw, sst lockwasher, ni pl, 3-48 thd by 5/32 in. lg (SH)(SEMS)(used on R-30A)	1
		- - - * - - -	
-19	15185	. . CONNECTOR, Receptacle (UG-625/U)(IPC)(IPC-18450)(used on R-30A)	1
		(ATTACHING PARTS)	
	—	. . NUT, Hexagon, 3/8-32 thd by 1/16 in. thk (supplied with 19, Figure 2)(used on R-30A)	1
	—	. . WASHER, Lock, sst, 3/8 in. ID (supplied with 19, Figure 2) (used on R-30A)	1
		- - - * - - -	
-20	8706(150)	. . CAPACITOR, Fixed, mica, 150 $\mu\mu$f ±2 per cent, 500 vdcw (EMM)(CM15D151G)(used on R-30A)	1
-21	12712	. . RELAY, Armature (14V)(used on R-30A)	1
-21	12713	. . RELAY, Armature (28V)(used on R-30A)	1
		(ATTACHING PARTS)	
	143(5/32)	. . SCREW, Machine, fh, brs, ni pl, 3-48 thd by 5/32 in. lg (used on R-30A)	1
	503(5/32)	. . SCREW, Assembled washer, bind hd, brs screw, sst lock-washer, ni pl, 3-48 thd by 5/32 in. lg (SH)(SEMS)(used on R-30A)	1
		- - - * - - -	
-22	20508	. . BRACKET, Angle (used on R-30A)	1
-23	12357	. CONNECTOR, Receptacle, 19 pin (used on R-30A)	1

Figure & Index No.	ARC Part No.	1 2 3 4 5 6 Description	Units per Assy
		(ATTACHING PARTS)	
2-	5310	. NUT, Knurled (supplied with 23, Figure 2)(used on R-30A)	1
		- - - * - - -	
-24	12426	. CONNECTOR, Receptacle, 3 pin (used on R-30A)	1
		(ATTACHING PARTS)	
	9327	. NUT, Knurled (supplied with 24, Figure 2)(used on R-30A)	1
		- - - * - - -	
-25	20593	. PLATE, Identification (14V)(used on R-30A).	1
-25	20594	. PLATE, Identification (28V)(used on R-30A).	1
		(ATTACHING PARTS)	
	8081	. SCREW, Tapping, thread-forming, rh, Phillips drive, stl, blk . . . parkerized, No. 2 by 5/32 in. lg (PK)(Z)(used on R-30A)	2
		- - - * - - -	
-26	14378	. TERMINAL ASSEMBLY (used on R-30A)	1
		(ATTACHING PARTS)	
	503(1/4)	. SCREW, Assembled washer, bind hd, brs screw, sst lockwasher, . ni pl, 3-48 thd by 1/4 in. lg (SH)(SEMS)(used on R-30A)	1
	4103	. WASHER, Lock, sst, 0.105 ID by 0.220 OD by 0.025 in. thk (SH) . . (1703)(used on R-30A)	1
		- - - * - - -	
-27	20610	. FRONT PANEL	1
		(ATTACHING PARTS)	
	503(5/16)	. SCREW, Assembled washer, bind hd, brs screw, sst lockwasher, . . ni pl, 3-48 thd by 5/16 in. lg (SH)(SEMS)	4
	18062	. STUD	2
	8488	. WASHER, Lock, sst, 0.145 ID by 0.280 OD by 0.030 in. thk (SH) . . (1706)	2
		- - - * - - -	
3-	17960(14V)	RECEIVER ASSEMBLY, ARC Type R-30 (14V)(top interior view). . . .	Ref
3-	17960(28V)	RECEIVER ASSEMBLY, ARC Type R-30 (28V)(top interior view). . . .	Ref
3-	20480(14V)	RECEIVER ASSEMBLY, ARC Type R-30A (14V)(top interior view) . . .	Ref
3-	20480(28V)	RECEIVER ASSEMBLY, ARC Type R-30A (28V)(top interior view) . . .	Ref
-1	18077	. COVER	1
		(ATTACHING PARTS)	
	513(3/16)	. SCREW, Assembled washer, bind hd, brs screw, sst lockwasher, . . blk oxidized, 3-48 thd by 3/16 in. lg (SH)(SEMS)	6
		- - - * - - -	
-2	20639	. BEAT FREQUENCY OSCILLATOR (used on R-30A).	1
		(ATTACHING PARTS)	
	8040	. NUT, Hexagon, brs, ni pl, 4-40 thd by 1/16 in. thk (used on R-30A) .	2
	8497	. WASHER, Lock, sst, 0.119 ID by 0.260 OD by 0.029 in. thk (SH) . . (1704)(used on R-30A)	2
		- - - * - - -	
-3	18075	. CLAMP, Formed.	1
		(ATTACHING PARTS)	
	502(3/16)	. SCREW, Assembled washer, bind hd, brs screw, sst lockwasher, . . ni pl, 2-56 thd by 3/16 in. lg (SH)(SEMS)	2
		- - - * - - -	
-4	17778	. STRAP	1
		(ATTACHING PARTS)	
	502(3/16)	. SCREW, Assembled washer, bind hd, brs screw, sst lockwasher, . . ni pl, 2-56 thd by 3/16 in. lg (SH)(SEMS)	2
		- - - * - - -	
-5	17910	. OSCILLATOR SUBASSEMBLY (see Figure 5)	1
		(ATTACHING PARTS)	
	502(5/16)	. SCREW, Assembled washer, bind hd, brs screw, sst lockwasher, . . ni pl, 2-56 thd by 5/16 in. lg (SH)(SEMS)	1
	502(7/32)	. SCREW, Assembled washer, bind hd, brs screw, sst lockwasher, . . ni pl, 2-56 thd by 7/32 in. lg (SH)(SEMS)	1
		- - - * - - -	
-6	18075	. CLAMP, Formed.	1

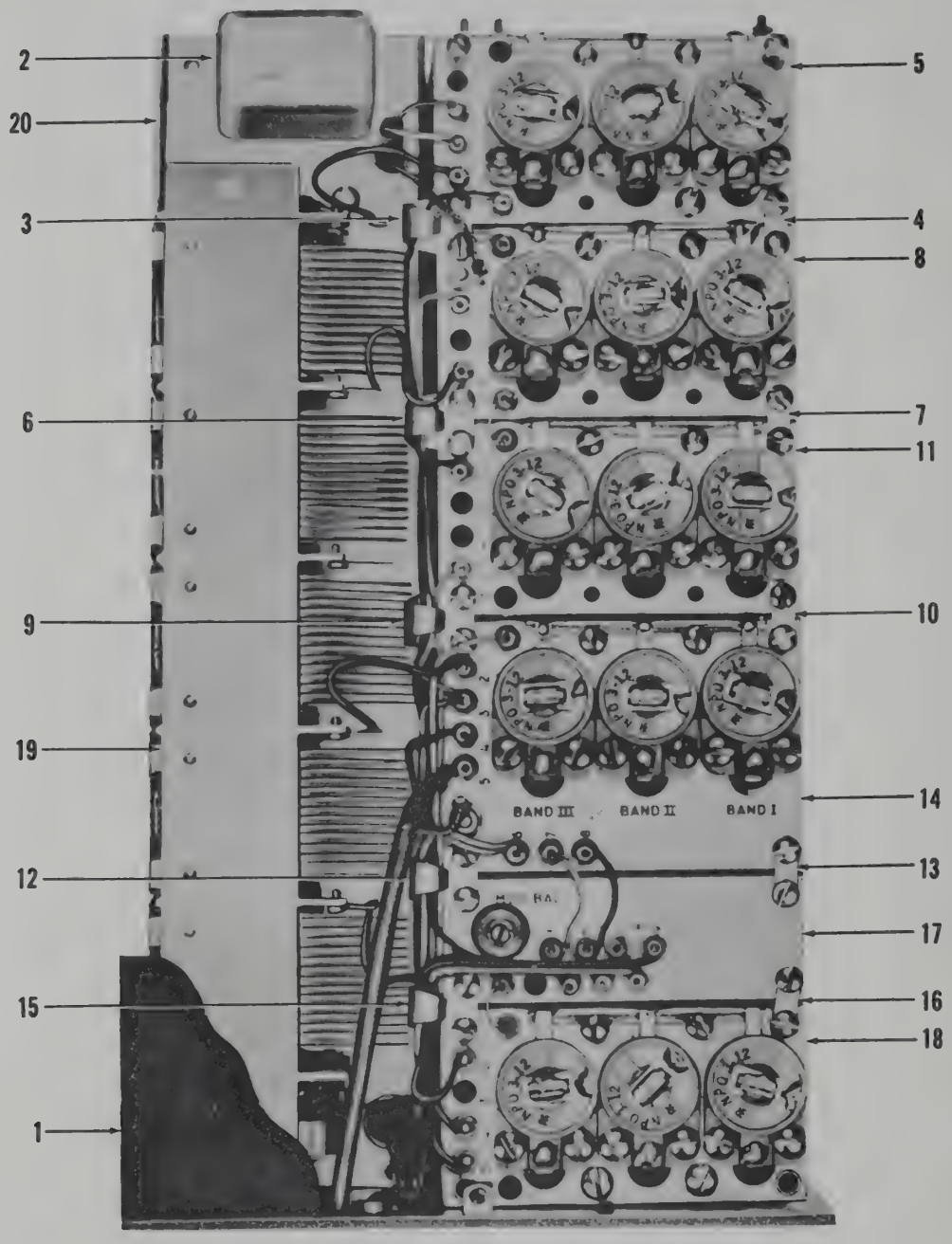


Figure 3. R-30 and R-30A Receivers, Top Interior View

Figure & Index No.	ARC Part No.	1 2 3 4 5 6 Description	Units per Assy
		(ATTACHING PARTS)	
	502(3/16)	. SCREW, Assembled washer, bind hd, brs screw, sst lockwasher, ni pl, 2-56 thd by 3/16 in. lg (SH)(SEMS)	2
		- - - * - - -	
-7	17778	. STRAP	1
		(ATTACHING PARTS)	
	502(3/16)	. SCREW, Assembled washer, bind hd, brs screw, sst lockwasher, ni pl, 2-56 thd by 3/16 in. lg (SH)(SEMS)	2
		- - - * - - -	
-8	17820	. RF SUBASSEMBLY, Second (see Figure 6)	1
		(ATTACHING PARTS)	
	502(7/32)	. SCREW, Assembled washer, bind hd, brs screw, sst lockwasher, ni pl, 2-56 thd by 7/32 in. lg (SH)(SEMS)	1
	502(7/16)	. SCREW, Assembled washer, bind hd, brs screw, sst lockwasher, ni pl, 2-56 thd by 7/16 in. lg (SH)(SEMS)(used on R-30)	1
	19839	. SCREW (used on R-30A)	1
	4052	. WASHER, Lock, sst, 0.092 ID by 0.180 OD by 0.020 in. thk (SH) (1702)(used on R-30A)	1
		- - - * - - -	
-9	18075	. CLAMP, Formed	1
		(ATTACHING PARTS)	
	502(3/16)	. SCREW, Assembled washer, bind hd, brs screw, sst lockwasher, ni pl, 2-56 thd by 3/16 in. lg (SH)(SEMS)	2
		- - - * - - -	
-10	17778	. STRAP	1
		(ATTACHING PARTS)	
	502(3/16)	. SCREW, Assembled washer, bind hd, brs screw, sst lockwasher, ni pl, 2-56 thd by 3/16 in. lg (SH)(SEMS)	2
		- - - * - - -	
-11	17810	. RF SUBASSEMBLY, First (see Figure 7)	1
		(ATTACHING PARTS)	
	502(7/32)	. SCREW, Assembled washer, bind hd, brs screw, sst lockwasher, ni pl, 2-56 thd by 7/32 in. lg (SH)(SEMS)	1
	502(7/16)	. SCREW, Assembled washer, bind hd, brs screw, sst lockwasher, ni pl, 2-56 thd by 7/16 in. lg (SH)(SEMS)(used on R-30)	1
	19839	. SCREW (used on R-30A)	1
	4052	. WASHER, Lock, sst, 0.092 ID by 0.180 OD by 0.020 in. thk (SH)(1702)(used on R-30A)	1
		- - - * - - -	
-12	18075	. CLAMP, Formed	1
		(ATTACHING PARTS)	
	502(3/16)	. SCREW, Assembled washer, bind hd, brs screw, sst lockwasher, ni pl, 2-56 thd by 3/16 in. lg (SH)(SEMS)	2
		- - - * - - -	
-13	1778	. STRAP	1
		(ATTACHING PARTS)	
	502(3/16)	. SCREW, Assembled washer, bind hd, brs screw, sst lockwasher, ni pl, 2-56 thd by 3/16 in. lg (SH)(SEMS)	2
		- - - * - - -	
-14	18120	. ANTENNA SUBASSEMBLY (see Figure 8)	1
		(ATTACHING PARTS)	
	502(7/16)	. SCREW, Assembled washer, bind hd, brs screw, sst lockwasher, ni pl, 2-56 thd by 7/16 in. lg (SH)(SEMS)(used on R-30)	2
	19839	. SCREW, (used on R-30A)	2
	4052	. WASHER, Lock, sst, 0.092 ID by 0.180 OD by 0.020 in. thk (SH) (1702)(used on R-30A)	2
		- - - * - - -	
-15	18075	. CLAMP, Formed	1
		(ATTACHING PARTS)	
	502(3/16)	. SCREW, Assembled washer, bind hd, brs screw, sst lockwasher, ni pl, 2-56 thd by 3/16 in. lg (SH)(SEMS)	2
		- - - * - - -	

Figure & Index No.	ARC Part No.	1 2 3 4 5 6 Description	Units per Assy
3-16	17778	. STRAP	1
		(ATTACHING PARTS)	
	502(3/16)	. SCREW, Assembled washer, bind hd, brs screw, sst lockwasher, ni pl, 2-56 thd by 3/16 in. lg (SH)(SEMS)	2
		- - - * - - -	
-17	17870	. MODULATOR SUBASSEMBLY (see Figure 9)	1
		(ATTACHING PARTS)	
	502(7/16)	. SCREW, Assembled washer, bind hd, brs screw, sst lockwasher, ni pl, 2-56 thd by 7/16 in. lg (SH)(SEMS)(used on R-30)	2
	19839	. SCREW, (used on R-30A)	2
	4052	. WASHER, Lock, sst, 0.092 ID by 0.180 OD by 0.020 in. thk (SH) (1702)(used on R-30A)	2
		- - - * - - -	
-18	17890	. LOOP SUBASSEMBLY (see Figure 10)	1
		(ATTACHING PARTS)	
	502(7/32)	. SCREW, Assembled washer, bind hd, brs screw, sst lockwasher, ni pl, 2-56 thd by 7/32 in. lg (SH)(SEMS)	2
		- - - * - - -	
-19	18688	. CAPACITOR, Variable	1
		(ATTACHING PARTS)	
	503(3/8)	. SCREW, Assembled washer, bind hd, brs screw, sst lockwasher, ni pl, 3-48 thd by 3/8 in. lg (SH)(SEMS)	1
	4561	. NUT, Hexagon, brs, ni pl, 3-48 thd by 1/16 in. thk	2
	4103	. WASHER, Lock, sst, 0.105 ID by 0.220 OD by 0.025 in. thk (SH) (1703)	2
	504(3/8)	. SCREW, Assembled washer, bind hd, brs screw, sst lockwasher, ni pl, 4-40 thd by 3/8 in. lg (SH)(SEMS)	2
		- - - * - - -	
-20	503(7/32)	. SCREW, Assembled washer, bind hd, brs screw, sst lockwasher, ni pl, 3-48 thd by 7/32 in. lg (SH)(SEMS)	2
-21	—	. CHASSIS ASSEMBLY (see Figures 11 and 12)	1
4-	17930(14V)	GEARING SUBASSEMBLY, Band selector (14V)(see 8 and 16, Figure 2).	Ref
4-	17930(28V)	GEARING SUBASSEMBLY, Band selector (28V)(see 8 and 16, Figure 2).	Ref
-1	18800	. MOTOR, Gear drive (14V)(CLIP)(DC-8-C-51)	1
-1	18801	. MOTOR, Gear drive (28V)(CLIP)(DC-8-C-11)	1
		(ATTACHING PARTS)	
-2	103(3/16)	. SCREW, Machine, bind hd, brs, ni pl, 3-48 thd by 3/16 in. lg . .	2
-3	17963	. CLAMP	2
-4	12793	. WASHER, Flat, Al, 0.104 ID by 0.197 OD by 0.047 in. thk	2
		- - - * - - -	
-4A[1]	8627(0.01)	. CAPACITOR, Fixed, ceramic, 0.01 μf ±20 per cent, 500 vdcw . . (AB)(36-103W)	1
-5	17924	. SWITCH, Rotary	1
		(ATTACHING PARTS)	
-6	164(13/16)	. SCREW, Machine, fil hd, brs, ni pl, 4-40 thd by 13/16 in. lg. . .	2
-7	17527	. WASHER, Non-metallic, phen, 0.116 ID by 0.187 OD by 0.032 in. . thk	4
-8	17925	. SPACER.	2
		- - - * - - -	
-9	17964	. SPRING	1
		(ATTACHING PARTS)	
-10	503(1/4)	. SCREW, Assembled washer, bind hd, brs screw, sst lockwasher, ni pl, 3-48 thd by 1/4 in. lg (SH)(SEMS)	1
		- - - * - - -	
-11	19159	. BRACKET.	1
		(ATTACHING PARTS)	
-12	503(1)	. SCREW, Assembled washer, bind hd, brs screw, sst lockwasher, ni pl, 3-48 thd by 1 in. lg (SH)(SEMS)	1
		- - - * - - -	

[1] Used in units starting with Serial No. 3532.

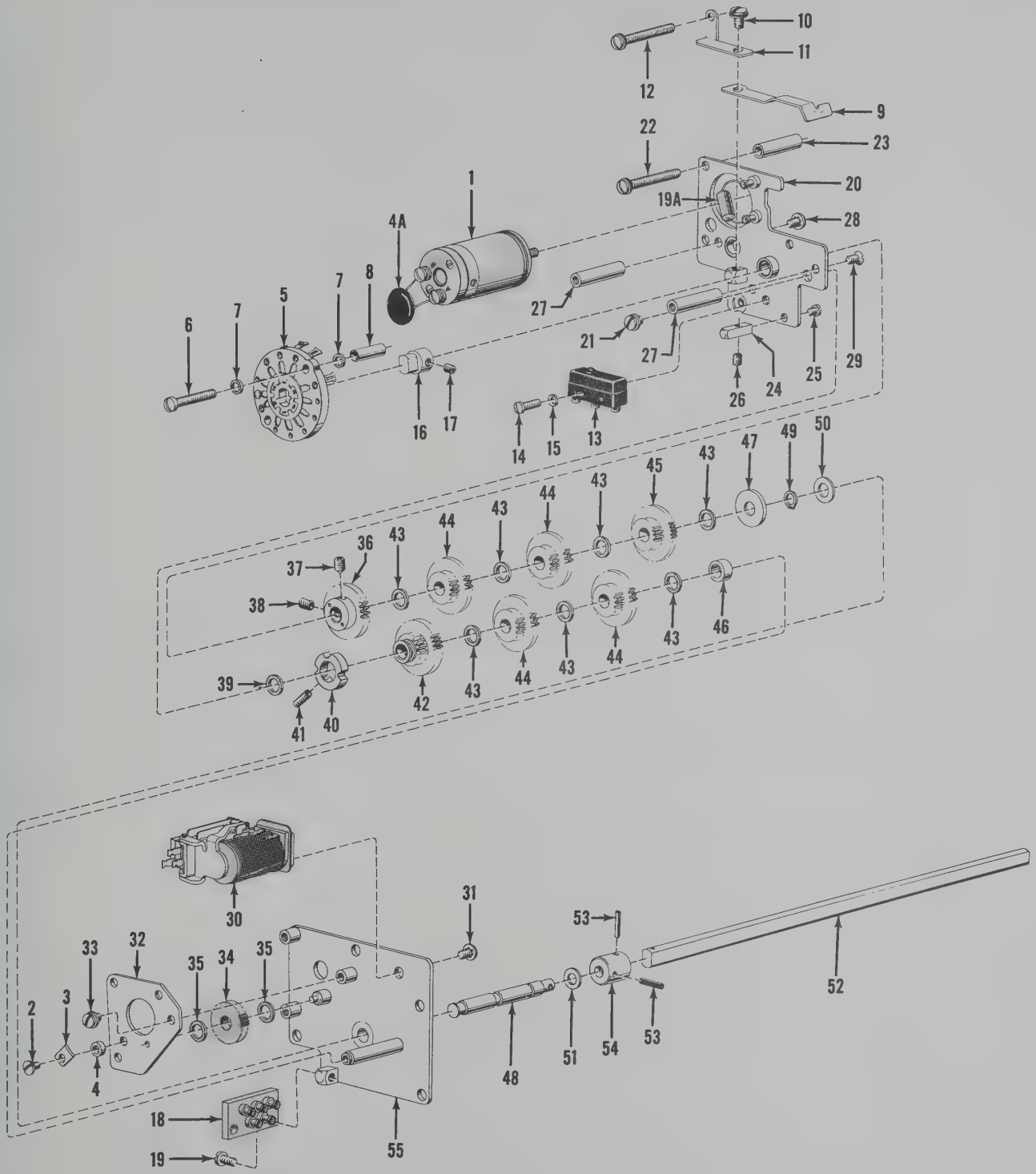


Figure 4. Gearing Subassembly, Band Selector

TP1587A

Figure & Index No.	ARC Part No.	1 2 3 4 5 6 Description	Units per Assy
4-13	21967	. SWITCH, Sensitive, SPDT (MCS)(1SM1).	1
		(ATTACHING PARTS)	
-14	102(3/8)	. SCREW, Machine, bind hd, brs, ni pl, 2-56 thd by 3/8 in. lg . . .	1
-15	10352	. WASHER, Spring tension	1
		- - - * - - -	
-16	17918	. COUPLING	1
		(ATTACHING PARTS)	
-17	304(3/32)	. SETSCREW, Bristo, cup point, sst, 4-40 NC-3 thd by 3/32 in. lg .	1
		- - - * - - -	
-18	17894	. TERMINAL PLATE.	1
		(ATTACHING PARTS)	
-19	103(1/4)	. SCREW, Machine, bind hd, brs, ni pl, 3-48 thd by 1/4 in. lg . . .	2
		- - - * - - -	
-19A[1]	8877(0.47)	. CHOKE, RF, 0.47 μh ±20 per cent (JFE)(10100-626)	1
-20	17912	. PLATE	1
		(ATTACHING PARTS)	
-21	503(3/16)	. SCREW, Assembled washer, bind hd, brs screw, sst lockwasher, . ni pl, 3-48 thd by 3/16 in. lg (SH)(SEMS)	1
-22	503(1)	. SCREW, Assembled washer, bind hd, brs screw, sst lockwasher, . ni pl, 3-48 thd by 1 in. lg (SH)(SEMS)	1
-23	17967	. POST	2
		- - - * - - -	
-24	17914	. . INSERT.	1
		(ATTACHING PARTS)	
-25	162(1/8)	. . SCREW, Machine, fil hd, brs, ni pl, 2-56 thd by 1/8 in. lg . .	1
		- - - * - - -	
-26	323(1/8)	. . SETSCREW, Slotted, cap point, sst, 3-48 thd by 1/8 in. lg. . .	1
-27	17908	. . POST.	2
		(ATTACHING PARTS)	
-28	503(3/16)	. . SCREW, Assembled washer, bind hd, brs screw, sst . . . . . lockwasher, ni pl, 3-48 thd by 3/16 in. lg (SH)(SEMS)	1
-29	143(3/16)	. . SCREW, Machine, fh, brs, ni pl, 3-48 thd by 3/16 in. lg . . .	1
		- - - * - - -	
-30	14403	. RELAY ASSEMBLY (14V)	1
-30	14404	. RELAY ASSEMBLY (28V)	1
		(ATTACHING PARTS)	
-31	503(5/32)	. SCREW, Assembled washer, bind hd, brs screw, sst lockwasher, . ni pl, 3-48 thd by 5/32 in. lg (SH)(SEMS)	2
		- - - * - - -	
-32	17971	. PLATE, Supporting.	1
		(ATTACHING PARTS)	
-33	503(3/16)	. SCREW, Assembled washer, bind hd, brs screw, sst lockwasher, . ni pl, 3-48 thd by 3/16 in. lg (SH)(SEMS)	1
		- - - * - - -	
-34	17959	. GEAR, Idler	1
-35	17935	. WASHER.	2
-36	17902	. GEAR	1
		(ATTACHING PARTS)	
-37	314(3/16)	. SETSCREW, Bristo, cone point, sst, 4-40 NC-3 thd by 3/16 in. lg.	1
-38	304(3/16)	. SETSCREW, Bristo, cup point, sst, 4-40 NC-3 thd by 3/16 in. lg .	1
		- - - * - - -	
-39	17935	. WASHER.	1
-40	17898	. CAM	1
		(ATTACHING PARTS)	
-41	302(3/32)	. SETSCREW, Bristo, cup point, sst, 2-56 NC-3 thd by 3/32 in. lg .	2
		- - - * - - -	
-42	17895	. GEAR	1
-43	17935	. WASHER.	AR
-44	17915	. . GEAR.	4
-45	17905	. . GEAR.	1
-46	17921	. . SPACER	1
-47	17899	. . SPACER	1

[1] Used in units starting with Serial No. 3532.

Figure & Index No.	ARC Part No.	1 2 3 4 5 6 Description	Units per Assy
4 -48	17923	. . SHAFT, Main	1
		(ATTACHING PARTS)	
-49	17742	. . RING, Retaining (WKI)(5100-18-C)	1
-50	5142	. . WASHER	1
		- - - * - - -	
-51	5378	. . WASHER	1
-52	17888	. . SHAFT, Switch	1
		(ATTACHING PARTS)	
-53	8775(3/8)	. . ROLL PIN (EN)(79-012-062-375).	2
-54	17889	. . COUPLING	1
		- - - * - - -	
-55	17922	. . PLATE, Bottom	1

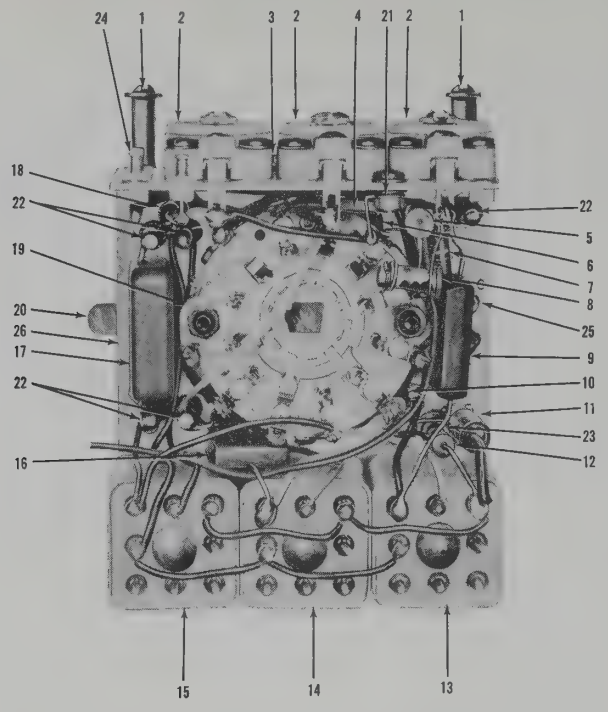


Figure 5. Oscillator Subassembly

Figure & Index No.	ARC Part No.	1 2 3 4 5 6 Description	Units per Assy
5-	17910	OSCILLATOR SUBASSEMBLY (see 5, Figure 3)	Ref
-1	18076	. POST	2
		(ATTACHING PARTS)	
	502(9/16)	. SCREW, Assembled washer, bind hd, brs screw, sst lockwasher, ni pl, 2-56 thd by 9/16 in. lg (SH)(SEMS)	2
		- - - * - - -	
-2	8743	. CAPACITOR, Variable, ceramic, 3 to 12 μμf, 500 vdcw . . . . . (ERC)(T52A-3-NPO)	3
		(ATTACHING PARTS)	
	103(1/4)	. SCREW, Machine, bind hd, brs, ni pl, 3-48 thd by 1/4 in. lg . . .	6
	13473	. WASHER, Spring tension	6
		- - - * - - -	
-3	17779	. BRACKET	1
		(ATTACHING PARTS)	
	502(5/32	. SCREW, Assembled washer, bind hd, brs screw, sst lockwasher, ni pl, 2-56 thd by 5/32 in. lg (SH)(SEMS)	2
		- - - * - - -	
-4	8706(220)	. CAPACITOR, Fixed, mica, 220 μμf ±2 per cent, 500 vdcw (EMM) . (CM15D221G)	1
-5	8750	. CAPACITOR, Fixed, ceramic, 12 μμf ±5 per cent, 350 vdcw . . . (ERC)(N1400A12J)	1
-6	8851	. CAPACITOR, Fixed, electrolytic, 2 μf +75, -15 per cent, 150 . . vdcw(SPR)(102D45)	1
-7	201(100K)	. RESISTOR, Fixed, composition, 100,000 ohms ±5 per cent, ... 1/2w (AB)(EB1045)	1
-8	8769(8)	. CAPACITOR, Fixed, ceramic, 8 μμf ±0.25 μμf 500 vdcw. . . . . (CC20UJ080C)	1
-9	8749	. CAPACITOR, Fixed, mica, 369 μμf ±1 per cent, 500 vdcw(EMM) . (CM20E3690F)	1
-10	700-122	. ELECTRON TUBE, Type 5718	1

Figure & Index No.	ARC Part No.	1 2 3 4 5 6 Description	Units per Assy
5-11	21485(1)	. CAPACITOR, Fixed, electrolytic, 1 μf ±20 per cent, 35 vdcw . . (SPR)(150D268B1)	1
-12	201(2200)	. RESISTOR, Fixed, composition, 2200 ohms ±5 per cent, 1/2w . . (AB)(EB2225)	1
-13	18621	. TRANSFORMER, RF (Band I) . . . . . (ATTACHING PARTS)	1
	8275	. NUT, Hexagon, brs, ni pl, 2-56 thd by 3/64 in. thk	2
	3876	. WASHER, Flat, brs, cd pl, 0.089 ID by 0.187 OD by 0.016 in. thk.	2
		- - - * - - -	
-14	18625	. TRANSFORMER, RF (Band II) . . . . . (ATTACHING PARTS)	1
	8275	. NUT, Hexagon, brs, ni pl, 2-56 thd by 3/64 in. thk	2
	3876	. WASHER, Flat, brs, cd pl, 0.089 ID by 0.187 OD by 0.016 in. thk.	2
		- - - * - - -	
-15	18629	. TRANSFORMER, RF (Band III) . . . . . (ATTACHING PARTS)	1
	8275	. NUT, Hexagon, brs, ni pl, 2-56 thd by 3/64 in. thk	2
	3876	. WASHER, Flat, brs, cd pl, 0.089 ID by 0.187 OD by 0.016 in. thk.	2
		- - - * - - -	
-16	8748(745)	. CAPACITOR, Fixed, mica, 745 μμf ±1 per cent, 500 vdcw (EMM). (CM20E7450F)	1
		- - - * - - -	
-17*	8618(1675)	. CAPACITOR, Fixed, mica, 1675 μμf ±2 per cent, 500 vdcw (EMM) (CM35E16750G)	1
-17*	8618(1700)	. CAPACITOR, Fixed, mica, 1700 μμf ±2 per cent, 500 vdcw (EMM) (CM35E172G)	1
-17*	8618(1740)	. CAPACITOR, Fixed, mica, 1740 μμf ±2 per cent, 500 vdcw (EMM) (CM35E1741G)	1
-18	201(10K)	. RESISTOR, Fixed, composition, 10,000 ohms ±5 per cent, 1/2w . (AB)(EB1035)	1
-19	17807	. SWITCH, Rotary, (OAK)(68972-JC) . . . . . (ATTACHING PARTS)	1
	8040	. NUT, Hexagon, brs, ni pl, 4-40 thd by 1/16 in. thk	2
	17527	. WASHER, Nonmetallic, phen, 0.116 ID by 0.187 OD by 0.032 in. . thk	6
	503(5/16)	. SCREW, Assembled washer, bind hd, brs screw, sst lockwasher, . ni pl, 3-48 thd by 5/16 in. lg (SH)(SEMS)	2
		- - - * - - -	
-20	21151	. SPRING	1
-21	14378	. TERMINAL, Lug . . . . . (ATTACHING PARTS)	1
	503(7/32)	. SCREW, Assembled washer, bind hd, brs screw, sst lockwasher, . ni pl, 3-48 thd by 7/32 in. lg (SH)(SEMS)	1
	4103	. WASHER, Lock, sst, 0.105 ID by 0.220 OD by 0.025 in. thk . . . (SH)(1703)	1
		- - - * - - -	
-22	17812	. TERMINAL (WIQ)(M2TS7) . . . . . (ATTACHING PARTS)	5
	8275	. NUT, Hexagon, brs, ni pl, 2-56 thd by 3/64 in. thk	5
	4052	. WASHER, Lock, sst, 0.092 ID by 0.180 OD by 0.020 in. thk . . . (SH)(1702)	10
		- - - * - - -	
-23	14699	. TERMINAL, Lug. . . . . (ATTACHING PARTS)	1
	503(7/32)	. SCREW, Assembled washer, bind hd, brs screw, sst lockwasher, . ni pl, 3-48 thd by 7/32 in. lg (SH)(SEMS)	1
	4103	. WASHER, Lock, sst, 0.105 ID by 0.220 OD by 0.025 in. thk . . . (SH)(1703)	1
		- - - * - - -	
-24	17805(WHT)	. TERMINAL, White, teflon (UGA)(CF-408).	4
-25	17806(WHT)	. TERMINAL, White, teflon (UGA)(TE-405).	3
-26	17859	. BRACKET.	1

*Value of Capacitor (17) factory selected for optimum oscillator tracking.

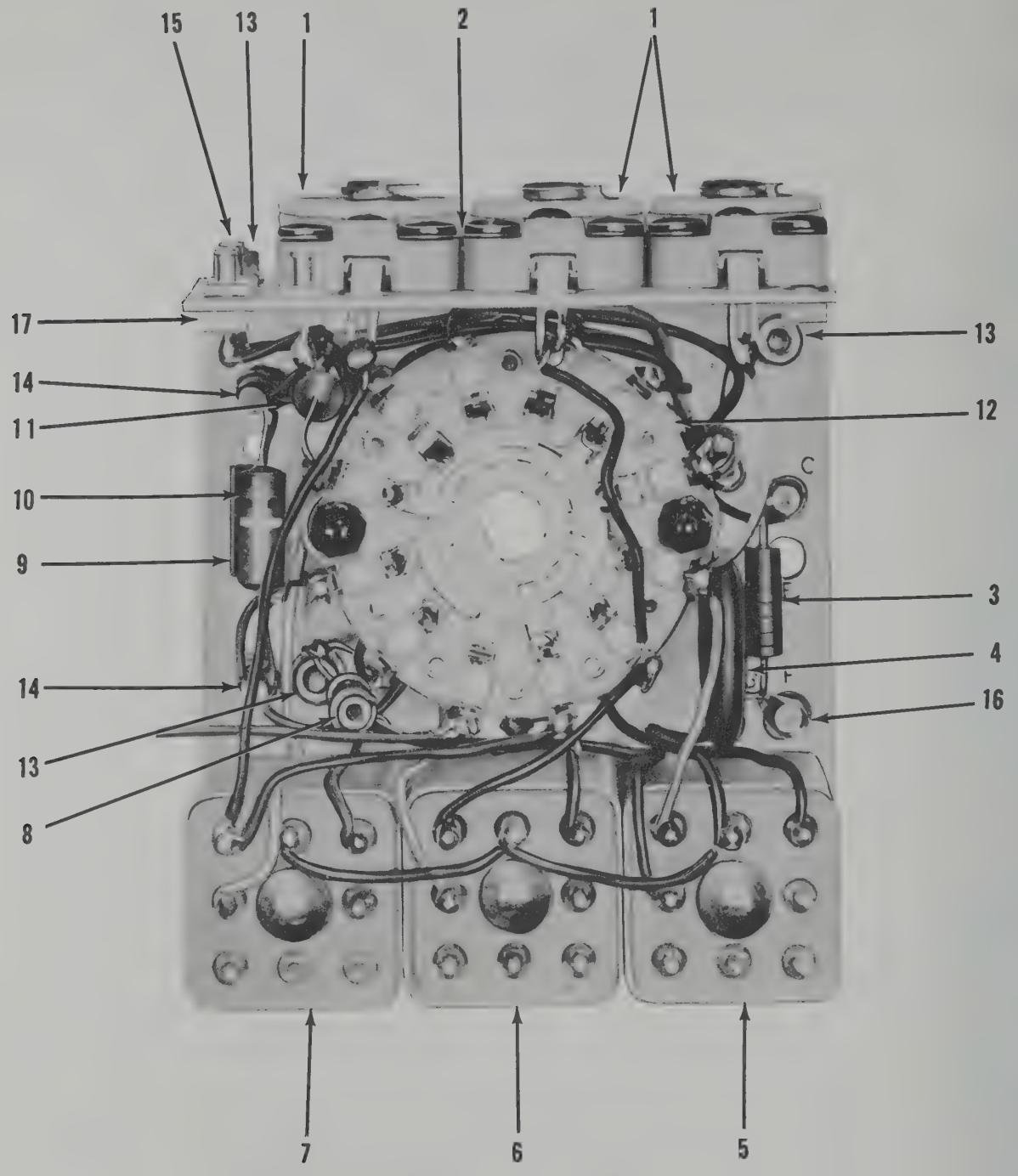


Figure 6. Second RF Subassembly

Figure & Index No.	ARC Part No.	1 2 3 4 5 6 Description	Units per Assy
6-	17820	RF SUBASSEMBLY, Second, (see 8, Figure 3)	Ref
-1	8743	. CAPACITOR, Variable, ceramic, 3 to 12 μμf, 500 vdcw (ERC) . . (T52A-3-NPO)	3
		(ATTACHING PARTS)	
	103(1/4)	. SCREW, Machine, bind hd, brs, ni pl, 3-48 thd by 1/4 in. lg . . .	6
	13473	. WASHER, Spring tension	6
		- - - * - - -	
-2	17779	. BRACKET	1
		(ATTACHING PARTS)	
	502(5/32)	. SCREW, Assembled washer, bind hd, brs screw, sst lockwasher, . . ni pl, 2-56 thd by 5/32 in. lg (SH)(SEMS)	2
		- - - * - - -	
-3	201(100K)	. RESISTOR, Fixed, composition, 100,000 ohms ±5 per cent, . . . 1/2w (AB)(EB1045)	1
-4	8627(0.022)	. CAPACITOR, Fixed, ceramic, 0.022 μf +100-0 per cent, 500 . . vdcw(AB)(40-223W)	1
-5	18609	. TRANSFORMER, RF (Band I)	1
		(ATTACHING PARTS)	
	8275	. NUT, Hexagon, brs, ni pl, 2-56 thd by 3/64 in. thk	2
	3876	. WASHER, Flat, brs, cd pl, 0.089 ID by 0.187 OD by 0.016 in. thk	2
		- - - * - - -	
-6	18613	. TRANSFORMER, RF (Band II)	1
		(ATTACHING PARTS)	
	8275	. NUT, Hexagon, brs, ni pl, 2-56 thd by 3/64 in. thk	2
	3876	. WASHER, Flat, brs, cd pl, 0.089 ID by 0.187 OD by 0.016 in. thk	2
		- - - * - - -	
-7	18617	. TRANSFORMER, RF (Band III)	1
		(ATTACHING PARTS)	
	8275	. NUT, Hexagon, brs, ni pl, 2-56 thd by 3/64 in. thk	2
	3876	. WASHER, Flat, brs, cd pl, 0.089 ID by 0.187 OD by 0.016 in. thk	2
		- - - * - - -	
-8	8769(20)	. CAPACITOR, Fixed, ceramic, 20 μμf ±5 per cent, 500 vdcw . . . (CC20UJ200J)	1
-9	15174	. CHOKE, RF, 14 μh ±10 per cent (JFE)(CF Ir-7/16)	1
-10	14141	. CHOKE, RF, 3 μh ±10 per cent (JFE)(10100-652).	1
-11	8877(1)	. CHOKE, RF, 1 μh ±20 per cent (JFE)(10100-630).	1
-12	17807	. SWITCH, Rotary (OAK)(68972-JC)	1
		(ATTACHING PARTS)	
	8040	. NUT, Hexagon, brs, ni pl, 4-40 thd by 1/16 in. thk.	2
	17527	. WASHER, Nonmetallic, phen, 0.116 ID by 0.187 OD by 0.032 in. thk.	6
	503(5/16)	. SCREW, Assembled washer, bind hd, brs screw, sst lockwasher, . . ni pl, 3-48 thd by 5/16 in. lg (SH)(SEMS)	2
		- - - * - - -	
-13	14378	. TERMINAL, Lug	3
		(ATTACHING PARTS)	
	503(7/32)	. SCREW, Assembled washer, bind hd, brs screw, sst lockwasher, . . ni pl, 3-48 thd by 7/32 in. lg (SH)(SEMS)	3
	4103	. WASHER, Lock, sst, 0.105 ID by 0.220 OD by 0.025 in. thk (SH) . . (1703)	3
		- - - * - - -	
-14	17812	. TERMINAL (WIQ)(M2TS7)	2
		(ATTACHING PARTS)	
	8275	. NUT, Hexagon, brs, ni pl, 2-56 thd by 3/64 in. thk	2
	4052	. WASHER, Lock, sst, 0.092 ID by 0.180 OD by 0.020 in. thk . . . . (SH)(1702)	4
		- - - * - - -	
-15	17805(WHT)	. TERMINAL, White, teflon (UGA)(CF-408)	4
-16	17806(WHT)	. TERMINAL, White, teflon (UGA)(TE-405)	4
-17	17813	. BRACKET	1

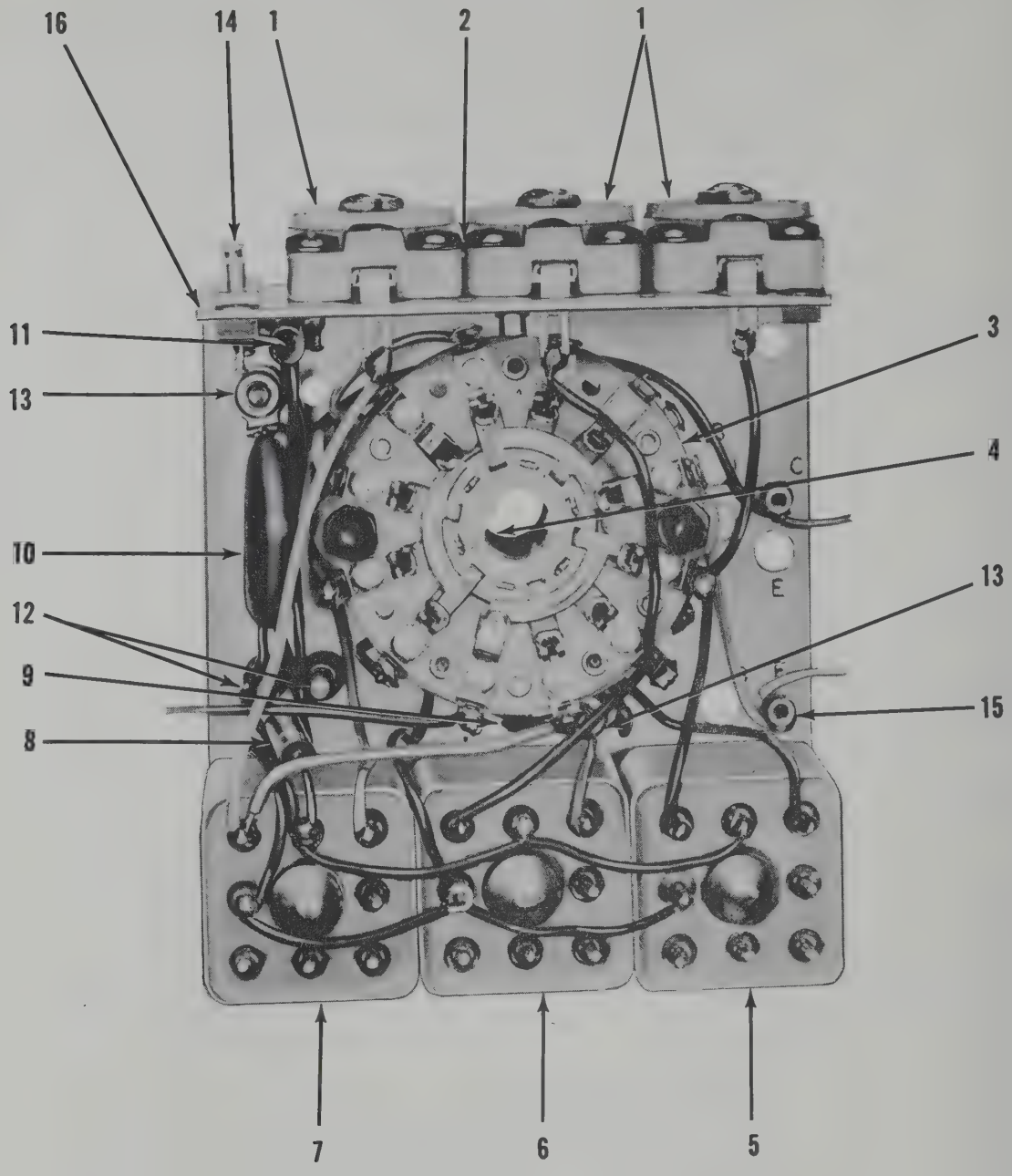


Figure 7. First RF Subassembly

Figure & Index No.	ARC Part No.	1 2 3 4 5 6 Description	Units per Assy
7-	17810	RF SUBASSEMBLY, First (see 11, Figure 3)	Ref
-1	8743	. CAPACITOR, Variable, ceramic, 3 to 12 μμf, 500 vdcw (ERC) (T52A-3-NPO)	3
		(ATTACHING PARTS)	
	103(1/4)	. SCREW, Machine, bind hd, brs, ni pl, 3-48 thd by 1/4 in. lg	6
	13473	. WASHER, Spring tension.	6
		- - - * - - -	
-2	17779	. BRACKET	1
		(ATTACHING PARTS)	
	502(5/32)	. SCREW, Assembled washer, bind hd, brs screw, sst lockwasher, ni pl, 2-56 thd by 5/32 in. lg (SH)(SEMS)	2
		- - - * - - -	
-3	17807	. SWITCH, Rotary (OAK)(68972-JC)	1
		(ATTACHING PARTS)	
	8040	. NUT, Hexagon, brs, ni pl, 4-40 thd by 1/16 in. thk	2
	17527	. WASHER, Nonmetallic, phen, 0.116 ID by 0.187 OD by 0.032 in. thk.	6
	503(5/16)	. SCREW, Assembled washer, bind hd, brs screw, sst lockwasher, ni pl, 3-48 thd by 5/16 in. lg (SH)(SEMS)	2
		- - - * - - -	
-4	21133	. STRAP, Bearing	1
	503(7/32)	. SCREW, Assembled washer, bind hd, brs screw, sst lockwasher, ni pl, 3-48 thd by 7/32 in. lg (SH)(SEMS)	2
	4103	. WASHER, Lock, sst, 0.105 ID by 0.220 OD by 0.025 in. thk (SH)(1703)	2
		- - - * - - -	
-5	18609	. TRANSFORMER, RF (Band I)	1
		(ATTACHING PARTS)	
	8275	. NUT, Hexagon, brs, ni pl, 2-56 thd by 3/64 in. thk.	2
	3876	. WASHER, Flat, brs, cd pl, 0.089 ID by 0.187 OD by 0.016 in thk	2
		- - - * - - -	
-6	18613	. TRANSFORMER, RF (Band II)	1
		(ATTACHING PARTS)	
	8275	. NUT, Hexagon, brs, ni pl, 2-56 thd by 3/64 in. thk.	2
	3876	. WASHER, Flat, brs, cd pl, 0.089 ID by 0.187 OD by 0.016 in. thk.	2
		- - - * - - -	
-7	18617	. TRANSFORMER, RF (Band III).	1
		(ATTACHING PARTS)	
	8275	. NUT, Hexagon, brs, ni pl, 2-56 thd by 3/64 in. thk.	2
	3876	. WASHER, Flat, brs, cd pl, 0.089 ID by 0.187 OD by 0.016 in. thk.	2
		- - - * - - -	
-8	201(4700)	. RESISTOR, Fixed, composition, 4700 ohms ±5 per cent, 1/2w (AB)(EB4725)	1
-9	8769(22)	. CAPACITOR, Fixed, ceramic, 22 μμf ±5 per cent, 500 vdcw (CC20UJ220J)	1
-10	8627(0.022)	. CAPACITOR, Fixed, ceramic, 0.022 μf +100, -0 per cent, 500 vdcw(AB)(40-223W)	1
-11	201(100K)	. RESISTOR, Fixed, composition, 100,000 ohms ±5 per cent, 1/2w (AB)(EB1045)	1
-12	17812	. TERMINAL (WIQ)(M2TS7).	2
		(ATTACHING PARTS)	
	8275	. NUT, Hexagon, brs, ni pl, 2-56 thd by 3/64 in. thk	2
	4052	. WASHER, Lock, sst, 0.092 ID by 0.180 OD by 0.020 in. thk (SH) (1702)	4
		- - - * - - -	
-13	14378	. TERMINAL, Lug	2
		(ATTACHING PARTS)	
-14	17805(WHT)	. TERMINAL, White, teflon (UGA)(CF-408)	3
-15	17806(WHT)	. TERMINAL, White, teflon (UGA)(TE-405)	2
-16	17803	. BRACKET	1

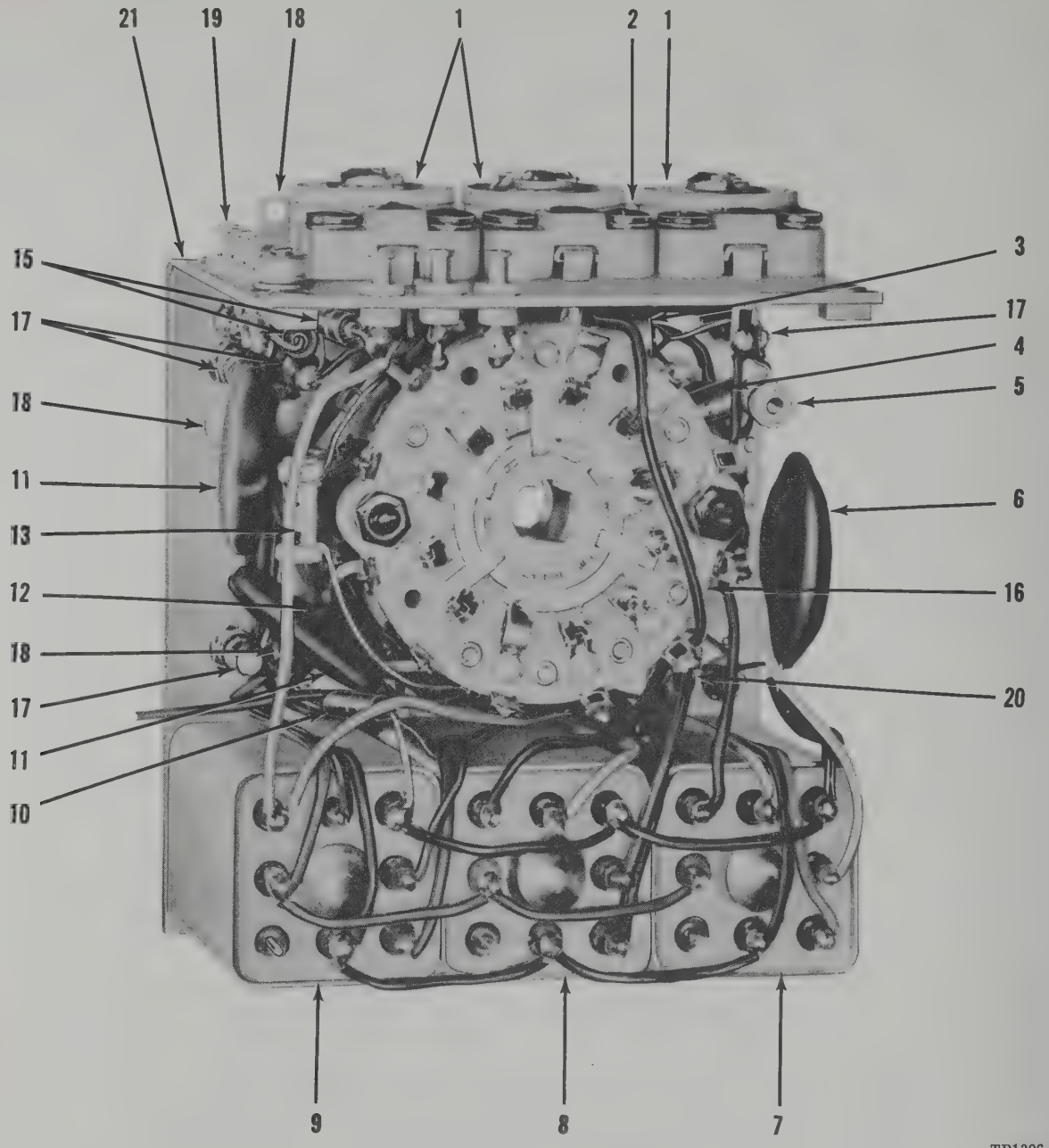


Figure 8. Antenna Subassembly

Figure & Index No.	ARC Part No.	1 2 3 4 5 6 Description	Units per Assy
8-	18120	ANTENNA SUBASSEMBLY (see 14, Figure 3)	Ref
-1	8743	. CAPACITOR, Variable, 3 to 12 $\mu\mu$f, 500 vdcw (ERC)(T52A-3-NPO).	3
		(ATTACHING PARTS)	
	103(1/4)	. SCREW, Machine, bind hd, brs, ni pl, 3-48 thd by 1/4 in. lg. . . .	6
	13473	. WASHER, Spring tension	6
		- - - * - - -	
-2	17779	. BRACKET	1
		(ATTACHING PARTS)	
	502(5/32)	. SCREW, Assembled washer, bind hd, brs screw, sst lockwasher, ni pl, 2-56 thd by 5/32 in. lg (SH)(SEMS)	2
		- - - * - - -	

Figure & Index No.	ARC Part No.	1 2 3 4 5 6 Description	Units per Assy
8-3	8890(0.047)	. CAPACITOR, Fixed, paper, 0.047 μf ±20 per cent, 200 vdcw (SPR). (196P47302S4)	1
-4	201(470)	. RESISTOR, Fixed, composition, 470 ohms ±5 per cent, 1/2w (AB) . (EB4715)	1
-5	8752	. CAPACITOR, Fixed, ceramic, 5 ±0.5 μμf, 350 vdcw (ERC) . . . . (N1400A5D)	1
-6	8627(0.022)	. CAPACITOR, Fixed, ceramic, 0.022 μf +100, -0 per cent, 500 . . vdcw (AB)(40-223W)	1
-7	18748	. TRANSFORMER, RF (Band I) . . . . . (ATTACHING PARTS)	1
	8275	. NUT, Hexagon, brs, ni pl, 2-56 thd by 3/64 in. thk	2
	3876	. WASHER, Flat, brs, cd pl, 0.089 ID by 0.187 OD by 0.016 in. thk .	2
		- - - * - - -	
-8	18752	. TRANSFORMER, RF (Band II) . . . . . (ATTACHING PARTS)	1
	8275	. NUT, Hexagon, brs, ni pl, 2-56 thd by 3/64 in. thk	2
	3876	. WASHER, Flat, brs, cd pl, 0.089 ID by 0.187 OD by 0.016 in. thk .	2
		- - - * - - -	
-9	18756	. TRANSFORMER, RF (Band III) . . . . . (ATTACHING PARTS)	1
	8275	. NUT, Hexagon, brs, ni pl, 2-56 thd by 3/64 in. thk	2
	3876	. WASHER, Flat, brs, cd pl, 0.089 ID by 0.187 OD by 0.016 in. thk .	2
		- - - * - - -	
-10	201(10K)	. RESISTOR, Fixed, composition, 10,000 ohms ±5 per cent, 1/2w . . (AB)(EB1035)	1
-11	8627(0.022)	. CAPACITOR, Fixed, ceramic, 0.022 μf +100, -0 per cent, 500 . . vdcw (AB)(40-223W)	2
-12	700-132	. ELECTRON TUBE, Type 5899	1
-13	8760	. CAPACITOR, Fixed, ceramic, 7 ±0.5 μμf, 350 vdcw (ERC) . . . . (N1400A7D)	1
-14	201(100K)	. RESISTOR, Fixed, composition, 100,000 ohms ±5 per cent . . . . . 1/2w (AB)(EB1045)	1
-15	201(100)	. RESISTOR, Fixed, composition, 100 ohms ±5 per cent, 1/2w (AB). . (EB1015)	1
-16	17807	. SWITCH, Rotary, ceramic (OAK)(68972-JC). . . . . (ATTACHING PARTS)	2
	8040	. NUT, Hexagon, brs, ni pl, 4-40 thd by 1/16 in. thk	2
	17527	. WASHER, Nonmetallic, phen, 0.116 ID by 0.187 OD by 0.032 in. . . thk	10
	19712	. POST	2
	503(5/16)	. SCREW, Assembled washer, bind hd, brs screw, sst lockwasher, . . ni pl, 3-48 thd by 5/16 in. lg (SH)(SEMS)	2
		- - - * - - -	
-17	17812	. TERMINAL (WIQ)(M2TS7) . . . . . (ATTACHING PARTS)	4
	8275	. NUT, Hexagon, brs, ni pl, 2-56 thd by 3/64 in. thk	4
	4052	. WASHER, Lock, sst, 0.092 ID by 0.180 OD by 0.020 in. thk (SH) . . (1702)	8
		- - - * - - -	
-18	14378	. TERMINAL, Lug. . . . . (ATTACHING PARTS)	3
	503(7/32)	. SCREW, Assembled washer, bind hd, brs screw, sst lockwasher, . . ni pl, 3-48 thd by 7/32 in. lg (SH)(SEMS)	3
	4103	. WASHER, Lock, sst, 0.105 ID by 0.220 OD by 0.025 in. thk (SH) . . (1703)	3
		- - - * - - -	
-19	17805(WHT)	. TERMINAL, White, teflon (UGA)(CF-408)	10
-20	17806(WHT)	. TERMINAL, White, teflon (UGA)(TE-405)	5
-21	18116	. BRACKET	1

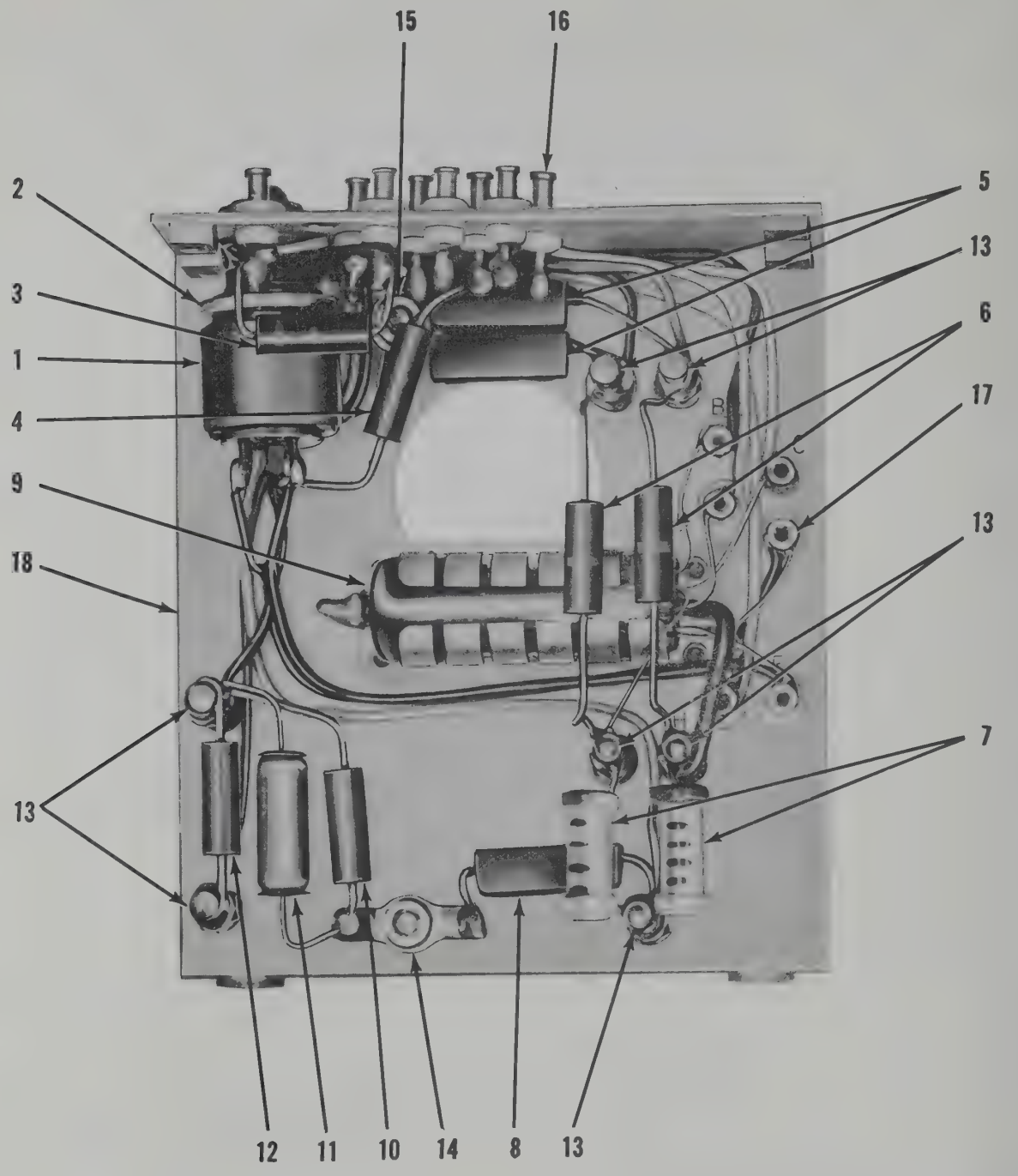
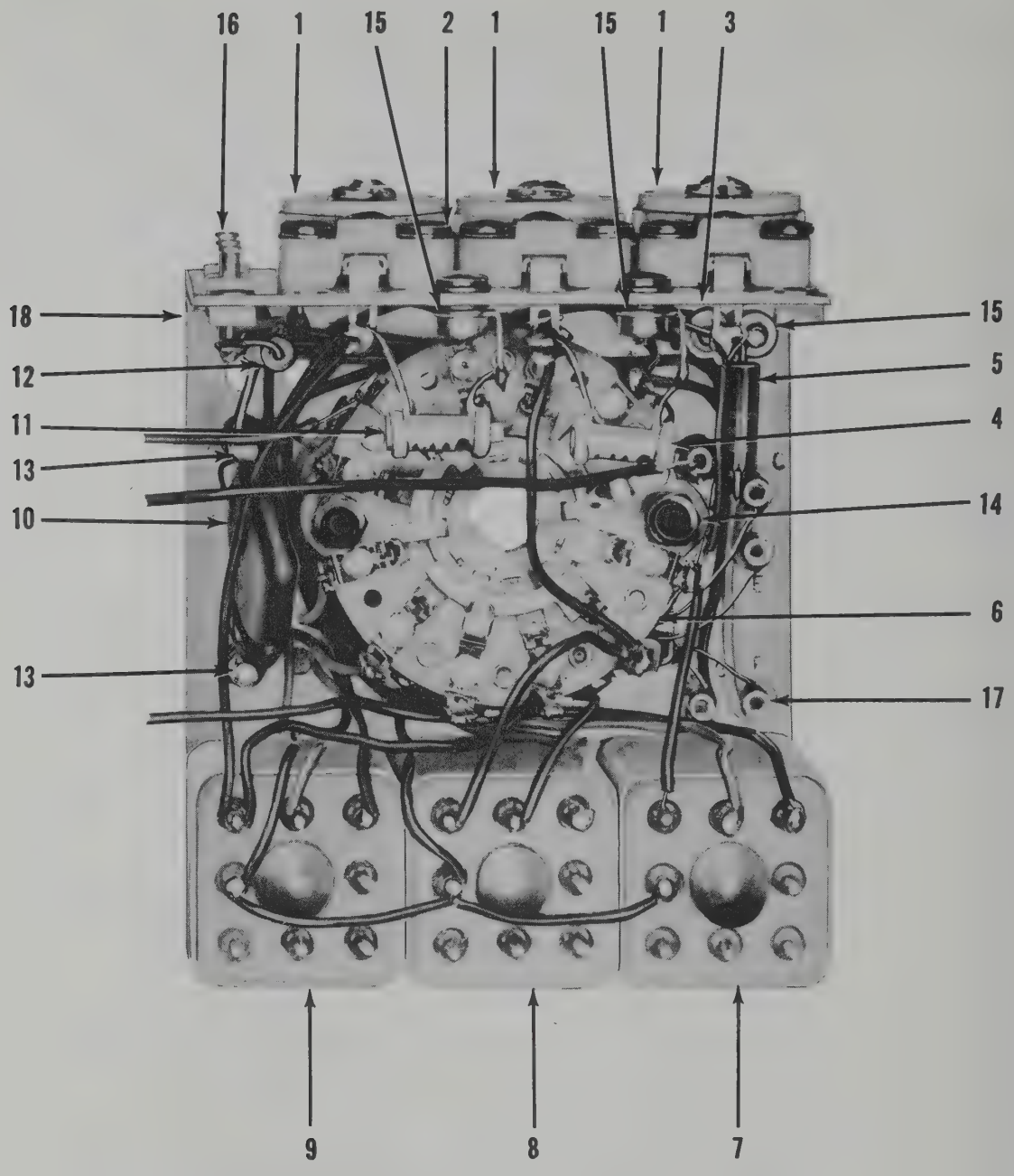


Figure 9. Modulator Subassembly

Figure & Index No.	ARC Part No.	1 2 3 4 5 6 Description	Units per Assy
9-	17870	MODULATOR SUBASSEMBLY (see 17, Figure 3)	Ref
-1	8739	. RESISTOR, Variable, 10,000 ohms ±20 per cent, 0.33w (AB) . . . . (GLU1032SD3028L)	1
		(ATTACHING PARTS)	
	—	. LOCKNUT (AB)(M-4761)(supplied with 1, Figure 9)	1
	—	. NUT (AB)(M-4721)(supplied with 1, Figure 9)	1
	—	. WASHER, Lock (AB)(M-4748)(supplied with 1, Figure 9)	1
		- - - * - - -	
-2	19220	. BRACKET	1
		(ATTACHING PARTS)	
	502(5/32)	. SCREW, Assembled washer, bind hd, brs screw, sst lockwasher, . . ni pl, 2-56 thd by 5/32 in. lg (SH)(SEMS)	2
		- - - * - - -	
-3	201(47K)	. RESISTOR, Fixed, composition, 47,000 ohms ±5 per cent, 1/2w . . (AB)(EB4735)	1
-4	201(1MEG)	. RESISTOR, Fixed, composition, 1,000,000 ohms ±5 per cent, 1/2 w. (AB)(EB1055)	1
-5	8706(510)	. CAPACITOR, Fixed, mica, 510 μμf ±2 per cent, 500 vdcw (EMM). . (CM15D511G)	2
-6	201(330K)	. RESISTOR, Fixed, composition, 330,000 ohms ±5 per cent, 1/2 w. . (AB)(EB3345)	2
-7	4520	. CAPACITOR, Fixed, ceramic, 100 μμf ±5 per cent, 500 vdcw . . . (ERC)(308)	2
-8	8706(150)	. CAPACITOR, Fixed, mica, 150 μμf ±2 per cent, 500 vdcw (EMM). . (CM15D151G)	1
-9	700-139	. ELECTRON TUBE, Type 6112	1
-10	201(22K)	. RESISTOR, Fixed, composition, 22,000 ohms ±5 per cent, 1/2w . . (AB)(EB2235)	1
-11	21485(1)	. CAPACITOR, Fixed, electrolytic, 1 μf ±20 per cent, 35 vdcw . . . (SPR)(150D268B1)	1
-12	201(1MEG)	. RESISTOR, Fixed, composition, 1,000,000 ohms ±5 per cent, 1/2w . (AB)(EB1055)	1
-13	17812	. TERMINAL (WIQ)(M2TS7).	7
		(ATTACHING PARTS)	
	8275	. NUT, Hexagon, brs, ni pl, 2-56 thd by 3/64 in. thk	7
	4052	. WASHER, Lock, sst, 0.092 ID by 0.180 OD by 0.020 in. thk (SH)(1702)	14
		- - - * - - -	
-14	14699	TERMINAL, Lug.	1
		(ATTACHING PARTS)	
	503(7/32)	. SCREW, Assembled washer, bind hd, brs screw, sst lockwasher, . ni pl, 3-48 thd by 7/32 in. lg (SH)(SEMS)	1
	4103	. WASHER, Lock, sst, 0.105 ID by 0.220 OD by 0.025 in. thk (SH) . . (1703)	1
		- - - * - - -	
-15	14699	. TERMINAL, Lug.	1
		(ATTACHING PARTS)	
	103(3/16)	. SCREW, Machine, bind hd, brs, ni pl, 3-48 thd by 3/16 in. lg . . .	1
	4103	. WASHER, Lock, sst, 0.105 ID by 0.220 OD by 0.025 in. thk (SH) . . (1703)	1
		- - - * - - -	
-16	17805(WHT)	. TERMINAL, White, teflon (UGA)(CF-408)	8
-17	17806(WHT)	. TERMINAL, White, teflon (UGA)(TE-405)	6
-18	17856	. BRACKET.	1



TP1310

Figure 10. Loop Subassembly

Figure & Index No.	ARC Part No.	1 2 3 4 5 6 Description	Units per Assy
10-	17890	LOOP SUBASSEMBLY (see 18, Figure 3)	Ref
-1	8743	. CAPACITOR, Variable, ceramic, 3 to 12 μμf, 500 vdcw (ERC) . . . (T52A-3-NPO)	3
		(ATTACHING PARTS)	
	103(1/4)	.. SCREW, Machine, bind hd, brs, ni pl, 3-48 thd by 1/4 in. lg	6
	13473	. WASHER, Spring tension	6
		- - - * - - -	
-2	17779	. BRACKET.	1
		(ATTACHING PARTS)	
	502(5/32)	. SCREW, Assembled washer, bind hd, brs screw, sst lockwasher, . ni pl, 2-56 thd by 5/32 in. lg (SH)(SEMS)	2
		- - - * - - -	
-3	8751	. CAPACITOR, Fixed, ceramic, 15 μμf ±5 per cent, 350 vdcw (ERC) . (N1400A15J)	1
-4	21923	. CAPACITOR, Fixed, ceramic, 8 μμf ±5 per cent, 350 vdcw (ERC) . (N1400A8J)	1
-5	201(470)	. RESISTOR, Fixed, composition, 470 ohms ±5 per cent, 1/2w (AB) . (EB4715)	1
-6	700-132	. ELECTRON TUBE, Type 5899	1
-7	18592	. TRANSFORMER, RF (Band I)	1
		(ATTACHING PARTS)	
	8275	. NUT, Hexagon, brs, ni pl, 2-56 thd by 3/64 in. thk	2
	3876	. WASHER, Flat, brs, cd pl, 0.089 ID by 0.187 OD by 0.016 in. thk .	2
		- - - * - - -	
-8	18601	. TRANSFORMER, RF (Band II).	1
		(ATTACHING PARTS)	
	8275	. NUT, Hexagon, brs, ni pl, 2-56 thd by 3/64 in. thk	2
	3876	. WASHER, Flat, brs, cd pl, 0.089 ID by 0.187 OD by 0.016 in. thk .	2
		- - - * - - -	
-9	18605	. TRANSFORMER, RF (Band III)	1
		(ATTACHING PARTS)	
	8275	. NUT, Hexagon, brs, ni pl, 2-56 thd by 3/64 in. thk	2
	3876	. WASHER, Flat, brs, cd pl, 0.089 ID by 0.187 OD by 0.016 in. thk .	2
		- - - * - - -	
-10	8627(0.022)	. CAPACITOR, Fixed, ceramic, 0.022 μf +100, -0 per cent, 500 . . vdcw (AB)(40-223W)	1
-11	8752	. CAPACITOR, Fixed, ceramic, 5 μμf ±0.5 μμf, 350 vdcw (ERC) . . (N1400A5D)	1
-12	201(120K)	. RESISTOR, Fixed, composition, 120,000 ohms ±5 per cent, 1/2w. . (AB)(EB1245)	1
-13	17812	. TERMINAL (WIQ)(M2TS7).	2
		(ATTACHING PARTS)	
	8275	. NUT, Hexagon, brs, ni pl, 2-56 thd by 3/64 in. thk	2
	4052	. WASHER, Lock, sst, 0.092 ID by 0.180 OD by 0.020 in. thk (SH) . . (1702)	4
		- - - * - - -	
-14	17807	. SWITCH, Rotary, ceramic (OAK)(68972-JC)	1
		(ATTACHING PARTS)	
	8040	. NUT, Hexagon, brs, ni pl, 4-40 thd by 1/16 in. thk	2
	17527	. WASHER, Nonmetallic, phen, 0.116 ID by 0.187 OD by 0.032 in. thk	6
	503(5/16)	. SCREW, Assembled washer, bind hd, brs screw, sst lockwasher . . ni pl, 3-48 thd by 5/32 in. lg (SH)(SEMS)	2
		- - - * - - -	
-15	14378	. TERMINAL, Lug.	3
		(ATTACHING PARTS)	
	503(7/32)	. SCREW, Assembled washer, bind hd, brs screw, sst lockwasher, . ni pl, 3-48 thd by 7/32 in. lg (SH)(SEMS)	3
	4103	. WASHER, Lock, sst, 0.105 ID by 0.220 OD by 0.025 in. thk (SH) . . (1703)	3
		- - - * - - -	
-16	17805(WHT)	. TERMINAL, White, teflon (UGA)(CF-408)	4
-17	17806(WHT)	. TERMINAL, White, teflon (UGA)(TE-405)	6
-18	17858	. BRACKET.	1

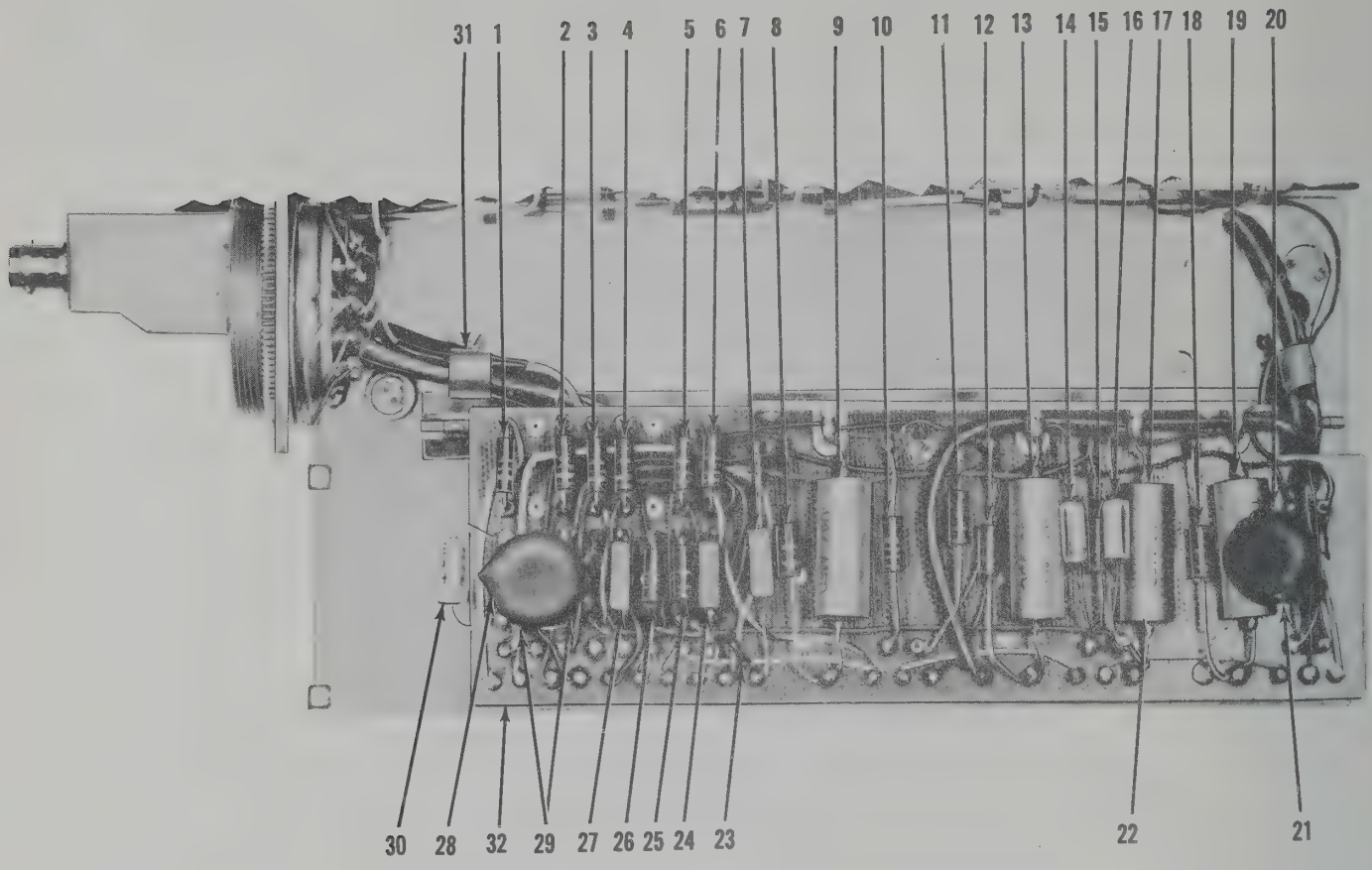


Figure 11. IF and AF Chassis Assembly, Bottom View

Figure & Index No.	ARC Part No.	1 2 3 4 5 6 Description	Units per Assy
11-	—	CHASSIS ASSEMBLY, I-F AND A-F, ARC Type R-30 and R-30A . . . ADF Receiver (see 21, Figure 3)	Ref
-1	201(470)	. RESISTOR, Fixed, composition, 470 ohms ±5 per cent, 1/2w (AB) . (EB4715)	1
-2	201(470K)	. RESISTOR, Fixed, composition, 470,000 ohms ±5 per cent, 1/2w. . (AB)(EB4745)	1
-3	201(47K)	. RESISTOR, Fixed, composition, 47,000 ohms ±5 per cent, 1/2w . . (AB)(EB4735)	1
-4	201(470K)	. RESISTOR, Fixed, composition, 470,000 ohms ±5 per cent, 1/2w. . (AB)(EB4745)	1
-5	201(220K)	. RESISTOR, Fixed, composition, 220,000 ohms ±5 per cent, 1/2w. . (AB)(EB2245)	1
-6	201(330K)	. RESISTOR, Fixed, composition, 330,000 ohms ±5 per cent, 1/2w. . (AB)(EB3345)	1
-7	8706(510)	. CAPACITOR, Fixed, mica, 510 $\mu\mu$f ±2 per cent, 500 vdcw (EMM) . (CM15D511G)	1
-8	201(4700)	. RESISTOR, Fixed, composition, 4700 ohms ±5 per cent, 1/2w (AB) . (EB4725)	1

Figure & Index No.	ARC Part No.	1 2 3 4 5 6 Description	Units per Assy
11-9	8890(0.047)	. CAPACITOR, Fixed, paper, 0.047 μf ±20 per cent, 200 vdcw (SPR) . (196P47302S4)	1
-10	201(330)	. RESISTOR, Fixed, composition, 330 ohms ±5 per cent, 1/2w (AB) . (EB3315)	1
-11	201(100K)	. RESISTOR, Fixed, composition, 100,000 ohms ±5 per cent, 1/2w . (AB)(EB1045)	1
-12	201(2200)	. RESISTOR, Fixed, composition, 2200 ohms ±5 per cent, 1/2w (AB) . (EB2225)	1
-13	8890(0.047)	. CAPACITOR, Fixed, paper, 0.047 μf ±20 per cent, 200 vdcw (SPR) . (196P47302S4)	1
-14	21485(1)	. CAPACITOR, Fixed, electrolytic, 1 μf ±20 per cent, 35 vdcw (SPR). (150D268B1)	1
-15	201(120)	. RESISTOR, Fixed, composition, 120 ohms ±5 per cent, 1/2w (AB). . (EB1215)	1
-16	21485(1)	. CAPACITOR, Fixed, electrolytic, 1 μf ±20 per cent, 35 vdcw (SPR). (150D268B1)	1
-17	8890(0.047)	. CAPACITOR, Fixed, paper, 0.047 μf ±20 per cent, 200 vdcw . . . . (SPR)(196P47302S4)	1
-18	201(470)	. RESISTOR, Fixed, composition, 470 ohms ±5 per cent, 1/2w (AB) . . (EB4715)	1
-19	8890(0.047)	. CAPACITOR, Fixed, paper, 0.047 μf ±20 per cent, 200 vdcw (SPR) . (196P47302S4)	1
-20	8627(0.022)	. CAPACITOR, Fixed, ceramic, 0.022 μf +100, -0 per cent, 500 . . . vdcw (AB)(40-223W)	1
-21	201(220K)	. RESISTOR, Fixed, composition, 220,000 ohms ±5 per cent, 1/2w . . (AB)(EB2245)	1
-22	200(1MEG)	. RESISTOR, Fixed, composition, 1,000,000 ohms ±10 per cent, 1/4w. (AB)(CB1051)	1
-23	200(100K)	. RESISTOR, Fixed, composition, 100,000 ohms ±10 per cent, 1/4 w . (AB)(CB1041)	1
-24	8706(510)	. CAPACITOR, Fixed, mica, 510 μμf ±2 per cent, 500 vdcw (EMM) . . (CM15D511G)	1
-25	201(220K)	. RESISTOR, Fixed, composition, 220,000 ohms ±5 per cent, 1/2w . . (AB)(EB2245)	1
-26	201(1.5MEG)	. RESISTOR, Fixed, composition, 1,500,000 ohms ±5 per cent, 1/2w . (AB)(EB1555)	1
-27	8706(330)	. CAPACITOR, Fixed, mica, 330 μμf ±2 per cent, 500 vdcw (EMM) . . (CM15D331G)	1
-28	8627(0.022)	. CAPACITOR, Fixed, ceramic, 0.022 μf +100, -0 per cent, 500 . . . vdcw (AB)(40-223W)	1
-29	201(2200)	. RESISTOR, Fixed, composition, 2200 ohms ±5 per cent, 1/2w (AB) . (EB2225)	2
-30	8881(10)	. CAPACITOR, Fixed, electrolytic, 10 μf +50, -15 per cent, 25 vdcw . (FML)(PP10B25A2)	1
-31	18186	. CLIP . . . . . (ATTACHING PARTS)	1
	502(5/32)	. SCREW, Assembled washer, bind hd, brs screw, sst lockwasher, . . ni pl, 2-56 thd by 5/32 in. lg (SH)(SEMS)	1
		- - - * - - -	
-32	18063	. PLATE, Terminal . . . . . (ATTACHING PARTS)	1
	142(3/16)	. SCREW, Machine, fh, brs, ni pl, 2-56 thd by 3/16 in. lg	3
	502(1/4)	. SCREW, Assembled washer, bind hd, brs screw, sst lockwasher, . . ni pl, 2-56 thd by 1/4 in. lg (SH)(SEMS)	2
	18068	. POST	3
	102(1/4)	. SCREW, Machine, bind hd, brs, ni pl, 2-56 thd by 1/4 in. lg	1
	13473	. WASHER, Spring tension	1
	3873	. TERMINAL, Lug	1
	4052	. WASHER, Lock, sst, 0.092 ID by 0.180 OD by 0.020 in. thk (SH) . . (1702)	1
		- - - * - - -	

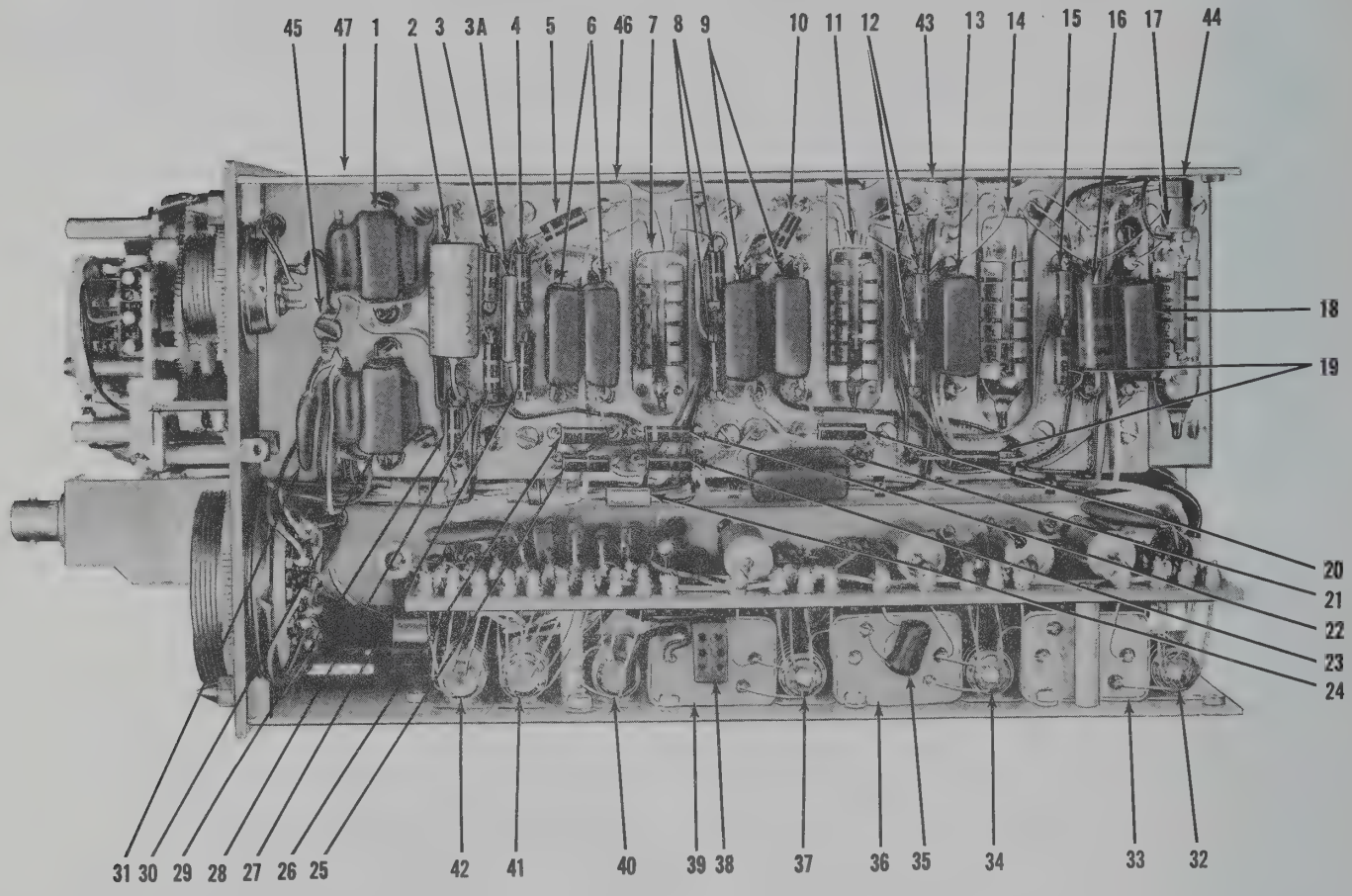


Figure 12. Chassis Assembly, Bottom Interior View

Figure & Index No.	ARC Part No.	1 2 3 4 5 6 Description	Units per Assy
12-	—	CHASSIS ASSEMBLY, ARC Type R-30 and R-30A ADF Receiver . . . (see 21, Figure 3)	Ref
-1	18053	. TRANSFORMER, Modulation (CMPB)(L1673)	1
		(ATTACHING PARTS)	
	163(3/16)	. SCREW, Machine, fil hd, brs, ni pl, 3-48 thd by 3/16 in. lg . . .	2
		- - - * - - -	
-2	8802	. CAPACITOR, Fixed, film, 0.1 μf ±5 per cent, 50 vdcw (CLD) . . . (TWMA1P1-5-5)	1
-3	201(510K)	. RESISTOR, Fixed, composition, 510,000 ohms ±5 per cent, 1/2w . (AB)(EB5145)	1
-3A[1]	8835	. CAPACITOR, Fixed, plastic, 0.01 μf ±20 per cent, 300 vdcw . . . (CLD)(TWA3S1-10)	1
-4[2]	201(10K)	. RESISTOR, Fixed, composition, 10,000 ohms ±5 per cent, 1/2w . (AB)(EB1035)	1
-5	201(2700)	. RESISTOR, Fixed, composition, 2700 ohms ±5 per cent, 1/2 w (AB) (EB2725)	1
-6	8618(0.01)	. CAPACITOR, Fixed, mica, 0.01 μf ±2 per cent, 500 vdcw (EMM) . (CM35E103G)	2
-7	700-122	. ELECTRON TUBE, Type 5718	1
-8	201(100K)	. RESISTOR, Fixed, composition, 100,000 ohms ±5 per cent, 1/2w . (AB)(EB1045)	2
-9	8618(0.01)	. CAPACITOR, Fixed, mica, 0.01 μf ±2 per cent, 500 vdcw (EMM) . (CM35E103G)	2
-10	201(2700)	. RESISTOR, Fixed, composition, 2700 ohms ±5 per cent, 1/2w (AB). (EB2725)	1
-11	700-136	. ELECTRON TUBE, Type 6021	1
-12	201(100K)	. RESISTOR, Fixed, composition, 100,000 ohms ±5 per cent, 1/2w . (AB)(EB1045)	2
-13	8618(0.01)	. CAPACITOR, Fixed, mica, 0.01 μf ±2 per cent, 500 vdcw (EMM) . (CM35E103G)	1
-14	700-133	. ELECTRON TUBE, Type 5902	1
-15	201(30K)	. RESISTOR, Fixed, composition, 30,000 ohms ±5 per cent, 1/2w. . (AB)(EB3035)	1
-16	203(330)	. RESISTOR, Fixed, composition, 330 ohms ±5 per cent, 2w (AB) . . (HB3315)	1
-17	700-133	. ELECTRON TUBE, Type 5902	1
-18	8618(0.01)	. CAPACITOR, Fixed, mica, 0.01 μf ±2 per cent, 500 vdcw (EMM) . (CM35E103G)	1
-19	201(510K)	. RESISTOR, Fixed, composition, 510,000 ohms ±5 per cent, 1/2w . (AB)(EB5145)	2
-20	201(100K)	. RESISTOR, Fixed, composition, 100,000 ohms ±5 per cent, 1/2w . (AB)(EB1045)	1
-21	8618(0.01)	. CAPACITOR, Fixed, mica, 0.01 μf ±2 per cent, 500 vdcw (EMM) . (CM35E103G)	1
-22	201(470K)	. RESISTOR, Fixed, composition, 470,000 ohms ±5 per cent, 1/2w . (AB)(EB4745)	1
-23	201(330K)	. RESISTOR, Fixed, composition, 330,000 ohms ±5 per cent, 1/2w . (AB)(EB3345)(used on R-30A)	1
-24	21485(1)	. CAPACITOR, Fixed, electrolytic, 1 μf ±20 per cent, 35 vdcw . . . (SPR)(150D268B1)(used on R-30A)	1
-25	201(100K)	. RESISTOR, Fixed, composition, 100,000 ohms ±5 per cent, 1/2w . (AB)(EB1045)(used on R-30A)	1
-26	201(510K)	. RESISTOR, Fixed, composition, 510,000 ohms ±5 per cent, 1/2w . (AB)(EB5145)	1
-27[2]	201(1K)	. RESISTOR, Fixed, composition, 1000 ohms ±5 per cent, 1/2w . . (AB)(EB1025)(used on R-30)	1
-27[2]	201(22K)	. RESISTOR, Fixed, composition, 22,000 ohms ±5 per cent, 1/2w. . (AB)(EB2235)(used on R-30A)	1
-28	201(47K)	. RESISTOR, Fixed, composition, 47,000 ohms ±5 per cent, 1/2w. . (AB)(EB4735)	1
-29	201(100K)	. RESISTOR, Fixed, composition, 100,000 ohms ±5 per cent, 1/2w . (AB)(EB1045)	1

[1] Used in units starting with Serial No. 3532.
[2] Not used in units starting with Serial No. 3532.

Figure & Index No.	ARC Part No.	1 2 3 4 5 6 Description	Units per Assy
12-30	18052	. TRANSFORMER, Output (CMPB)(L1671)	1
		(ATTACHING PARTS)	
	163(3/16)	. SCREW, Machine, fil hd, brs, ni pl, 3-48 thd by 3/16 in. lg . . .	2
		- - - * - - -	
-31	8627(0.022)	. CAPACITOR, Fixed, ceramic, 0.022 μf +100, -0 per cent, 500 . . vdcw (AB)(40-223W)	1
-32	700-132	. ELECTRON TUBE, Type 5899	1
-33	18171	. TRANSFORMER, IF (First)	1
		(ATTACHING PARTS)	
	142(3/16)	. SCREW, Machine, fh, brs, ni pl, 2-56 thd by 3/16 in. lg	1
		- - - * - - -	
-34	700-132	. ELECTRON TUBE, Type 5899	1
-35	8791(1)	. CAPACITOR, Fixed, ceramic, 1 μμf ±0.25 μμf, 500 vdcw . . . . (CC20HK010C)(used on R-30A)	1
-36	18171	. TRANSFORMER, IF (Second).	1
		(ATTACHING PARTS)	
	142(3/16)	. SCREW, Machine, fh, brs, ni pl, 2-56 thd by 3/16 in. lg	1
		- - - * - - -	
-37	700-132	. ELECTRON TUBE, Type 5899	1
-38	8706(220)	. CAPACITOR, Fixed, mica, 220 μμf ±2 per cent, 500 vdcw (EMM) . (CM15D221G)	1
-39	18173	. TRANSFORMER, IF (Third)	1
		(ATTACHING PARTS)	
	142(3/16)	. SCREW, Machine, fh, brs, ni pl, 2-56 thd by 3/16 in. lg	1
		- - - * - - -	
-40	700-131	. ELECTRON TUBE, Type 5896	1
-41	700-136	. ELECTRON TUBE, Type 6021	1
-42	700-133	. ELECTRON TUBE, Type 5902	1
-43	14378	. TERMINAL, Lug	2
		(ATTACHING PARTS)	
	143(3/16)	. SCREW, Machine, fh, brs, ni pl, 3-48 thd by 3/16 in. lg	2
	4103	. WASHER, Lock, sst, 0.105 ID by 0.220 OD by 0.025 in. thk (SH) . (1703)	2
		- - - * - - -	
-44	18045	. TERMINAL, Standoff (WIQ)(766)	1
		(ATTACHING PARTS)	
	144(1/4)	. SCREW, Machine, fh, brs, ni pl, 4-40 thd by 1/4 in. lg	1
	8497	. WASHER, Lock, sst, 0.119 ID by 0.260 OD by 0.029 in. thk (SH) . (1704)	1
		- - - * - - -	
-45	9542	. TERMINAL, Lug	1
		(ATTACHING PARTS)	
	103(3/16)	. SCREW, Machine, bind hd, brs, ni pl, 3-48 thd by 3/16 in. lg. . .	1
	4103	. WASHER, Lock, sst, 0.105 ID by 0.220 OD by 0.025 in. thk (SH) . (1703)	1
		- - - * - - -	
-46	18072	. PLATE, Terminal	1
		(ATTACHING PARTS)	
	503(9/32)	. SCREW, Assembled washer, bind hd, brs screw, sst lockwasher, . ni pl, 3-48 thd by 9/32 in. lg (SH)(SEMS)	5
	163(9/32)	. SCREW, Machine, fil hd, brs, ni pl, 3-48 thd by 9/32 in. lg . . .	1
	18054	. PLATE, Insulating	1
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-47	18040	. CHASSIS.	1

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8706(510)	9-5	4
	11-7	
	11-24	
8739	9-1	1
8743	5-2	15
	6-1	
	7-1	
	8-1	
	10-1	
8748(745)	5-16	1
8749	5-9	1
8750	5-5	1
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8752	8-5	2
	10-11	
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8775(3/8)	4-53	2
8791(1)	12-35	1
8802	12-2	1
8835	12-3A	1
8851	5-6	1
8877(0.47)	4-19A	1
8877(1)	6-11	1
8881(10)	11-30	1
8890(0.047)	8-3	5
	11-9	
	11-13	
	11-17	
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	2-24	
9452	12-45	1

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